STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law (Chapter 644 RSMo, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.	MO-0004936
Owner:	Ford Motor Company
Address:	One American Road, Dearborn, MI 48126
Continuing Authority:	Ford Motor Company
Address:	8121 Northeast Highway 69, Claycomo, MO 64119
Facility Name:	Ford Motor Company—Kansas City Assembly Plant
Facility Address:	8121 Northeast Highway 69, Claycomo, MO 64119
Legal Description:	See page 2
UTM Coordinates:	See page 2
Receiving Stream:	See page 2
First Classified Stream and ID:	See page 2
USGS Basin & Sub-watershed No.:	See page 2

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See page 2

This permit authorizes only stormwater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas.

August 1, 2022 Effective Date

Wieberg, Director, Water Projection Program

July 31, 2027 Expiration Date

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FACILITY DESCRIPTION (CONTINUED)

Ford Motor Company, Kansas City Assembly plant builds light duty trucks and transit vans. The facility discharges stormwater from 16 monitored outfalls. Non-contact cooling water and process wastewater are not discharged from this facility. All non-contact cooling water and wastewater is sent to an onsite wastewater pre-treatment plant and discharged to the Kansas City sanitary sewer system. Non-contact cooling water and wastewater, are not authorized for discharge under this permit. The plant structure consists of the main plant, the stamping plant, the body shop, and the paint shop. Each of these divisions is housed in their own building, with roads and parking lots between. The plant areas are crossed by a rail line which is not owned by Ford Motor Company. Plant operations support includes a powerhouse, raw material storage (tanks, containers, and scrap metal), emission control systems, warehouse storage, and shipping and receiving areas. This facility does not require a certified wastewater operator per 10 CSR 20-9.030 as this facility is privately owned.

OUTFALL #001 - Stormwater runoff; SIC # 3711

Receives stormwater from the main plant. N	o treatment.
Legal Description:	SE ¹ / ₄ , NE ¹ / ₄ , Sec.27, T51N, R32W, Clay County
UTM Coordinates:	X = 372552, Y = 4340614
Receiving Stream:	Shoal Creek (P) 397
First Classified Stream and ID:	Shoal Creek (P) 397
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

OUTFALL #002- Stormwater runoff; SIC # 3711

Receives stormwater from the main plan	it. No treatment.
Legal Description:	NW ¹ /4, NE ¹ /4, Sec.27, T51N, R32W, Clay County
UTM Coordinates:	X = 372340, Y = 4340772
Receiving Stream:	Shoal Creek (P) 397
First Classified Stream and ID:	Shoal Creek (P) 397
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

OUTFALL # 003 – Stormwater runoff; SIC # 3711

d paint shop. No treatment.
NW ¹ /4, SE ¹ /4, Sec.27, T51N, R32W, Clay County
X = 372279, Y = 4340019
Mill Creek (C)
100K Extent-Remaining Stream (C) 3960
Middle Shoal Creek (10300101-0303)
Dependent on precipitation

OUTFALL # 004 – Stormwater runoff;	SIC # 3711
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Receives stormwater from the main plant. No treatment.

Legal Description:	NW ¹ /4, SW ¹ /4, Sec.26, T51N, R32W, Clay County
UTM Coordinates:	X = 372631, Y = 4340088
Receiving Stream:	Tributary to Mill Creek
First Classified Stream and ID:	100K Extent-Remaining Stream (C) 3960
	Locally known as Mill Creek
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

<u>OUTFALL # 005</u> – Stormwater runoff and water tower discharge; SIC # 3711 No industrial exposure, this outfall will not be monitored in this permit. Water tower discharge is authorized from this outfall per Special Condition #17 of this permit for fire suppression purposes only.

OUTFALL # 006 – Stormwater runoff; SIC # 3711

Receives stormwater from the main plant. N	lo treatment.
Legal Description:	NE ¹ / ₄ , SE ¹ / ₄ , Sec.27, T51N, R32W, Clay County
UTM Coordinates:	X = 372549, Y = 4340022
Receiving Stream:	Tributary to Mill Creek
First Classified Stream and ID:	100K Extent-Remaining Stream (C) 3960
	Locally known as Mill Creek
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

OUTFALL # 007

— Stormwater runoff; SIC # 3711Receives stormwater from the main plant. No treatment.Legal Description:SW¼, NW¼, Sec.26, T51N, R32W, Clay CountyUTM Coordinates:X = 372928, Y = 4340391Receiving Stream:Tributary to Shoal CreekFirst Classified Stream and ID:Shoal Creek (P) 396USGS Basin & Sub-watershed No.:Middle Shoal Creek (10300101-0303)Average Flow:Dependent on precipitation

OUTFALL # 008– Stormwater runoff; SIC # 3711Receives stormwater from the main plant. No treatment.Legal Description:SW¼, NW¼, Sec.26, T51N, R32W, Clay CountyUTM Coordinates:X = 372644, Y = 4340533Receiving Stream:Tributary to Shoal CreekFirst Classified Stream and ID:Shoal Creek (P) 396USGS Basin & Sub-watershed No.:Middle Shoal Creek (10300101-0303)Average Flow:Dependent on precipitation

OUTFALL # 009 – Not monitored in this permit; no regulated exposure.

 $\underline{OUTFALL # 010}$ – Not monitored in this permit; no regulated exposure.

OUTFALL # 011 - Stormwater runoff; SIC # 3711

Receives stormwater from the main plant.	No treatment.
Legal Description:	NW ¹ /4, SW ¹ /4, Sec.26, T51N, R32W, Clay County
UTM Coordinates:	X = 372726, Y = 4340182
Receiving Stream:	Tributary to Mill Creek
First Classified Stream and ID:	100K Extent-Remaining Stream (C) 3960
	Locally known as Mill Creek
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

OUTFALL # 012 - Stormwater runoff; SIC # 3711

Receives stormwater from the main plant ar	d body shop. No treatment.
Legal Description:	NW ¹ / ₄ , SE ¹ / ₄ , Sec.27, T51N, R32W, Clay County
UTM Coordinates:	X = 372138, Y = 4340103
Receiving Stream:	Mill Creek (C)
First Classified Stream and ID:	100K Extent-Remaining Stream (C) 3960
	Locally known as Mill Creek
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

OUTFALL # 013 – Stormwater runoff; SIC # 3711

Receives stormwater from the main plant an	d body shop. No treatment.
Legal Description:	NE ¹ / ₄ , SE ¹ / ₄ , Sec.27, T51N, R32W, Clay County
UTM Coordinates:	X = 372395, Y = 4339927
Receiving Stream:	Mill Creek (C)
First Classified Stream and ID:	100K Extent-Remaining Stream (C) 3960
	Locally known as Mill Creek
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

OUTFALL # 014 – Eliminated in a previous renewal.

OUTFALL # 015 – Eliminated in a previous renewal.

OUTFALL # 016 – Stormwater runoff; SIC # 3711

Receives stormwater from the body shop. No treatment.Legal Description:NW¼, SE¼, Sec.27, T51N, R32W, Clay CountyUTM Coordinates:X = 371967, Y = 4340208Receiving Stream:Mill Creek (C)First Classified Stream and ID:100K Extent-Remaining Stream C) 3960USGS Basin & Sub-watershed No.:Middle Shoal Creek (10300101-0303)Average Flow:Dependent on precipitation

OUTFALL # 017 –Not monitored in this permit; no regulated exposure.

OUTFALL # 018 – Not monitored in this permit; no regulated exposure.

 $\underline{OUTFALL # 019}$ – Not monitored in this permit; no regulated exposure.

OUTFALL # 020 - Removed from permit in 2022 renewal; flow is too low for the facility to sample from this outfall.

OUTFALL # 021 – Stormwater runoff; SIC #	3711
Receives stormwater from the main plant. N	o treatment.
Legal Description:	NE ¹ / ₄ , SE ¹ / ₄ , Sec.27, T51N, R32W, Clay County
UTM Coordinates:	X = 372554, Y = 4339989
Receiving Stream:	Mill Creek (C)
First Classified Stream and ID:	100K Extent-Remaining Stream (C) 3960
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

OUTFALL # 022 - Not monitored in this permit; no regulated exposure.

OUTFALL # 023 - Stormwater runoff; SIC # 3711

Receives stormwater from scrap metal re	oll top dumpsters and truck body laydown yard.
Legal Description:	NW ¹ /4, SE ¹ /4, Sec.27, T51N, R32W, Clay County
UTM Coordinates:	X = 371967, Y = 4340211
Receiving Stream:	Mill Creek (C)
First Classified Stream and ID:	100K Extent-Remaining Stream (C) 3960
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

OUTFALL # 024 - Eliminated in a previous renewal

OUTFALL # 026 - Not monitored in this permit; no regulated exposure.

OUTFALL # 027 - Stormwater runoff; SIC	# 3711
Receives stormwater from the stamping p	lant. No treatment.
Legal Description:	NE ¹ /4, NW ¹ /4, Sec.26, T51N, R32W, Clay County
UTM Coordinates:	X = 373337, Y = 4340637
Receiving Stream:	Tributary to Shoal Creek
First Classified Stream and ID:	Shoal Creek (P) 396
USGS Basin & Sub-watershed No.:	Middle Shoal Creek (10300101-0303)
Average Flow:	Dependent on precipitation

OUTFALL # 028– Stormwater runoff; SIC # 3711Receives stormwater from the stamping plant. No treatment.Legal Description:SE¼, NW¼, Sec.26, T51N, R32W, Clay CountyUTM Coordinates:X = 373349, Y = 4340305Receiving Stream:Tributary to Shoal CreekFirst Classified Stream and ID:Shoal Creek (P) 396USGS Basin & Sub-watershed No.:Middle Shoal Creek (10300101-0303)Average Flow:Dependent on precipitation

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL #001, #002, #003, #004, #006, #007, #008, #011, #012, #013, #016, #021, #023, #025, #027, #028*** Stormwater Only

TABLE A-1 INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The facility is authorized to discharge from outfall(s) as specified. In accordance with 10 CSR 20-7.031, the final effluent limitations outlined in Table A-2 must be achieved as soon as possible but no later than <u>August 1, 2024</u>. These interim effluent limitations are effective beginning <u>August 1, 2022</u> and remain in effect through <u>July 31, 2024</u> or as soon as possible. Discharges shall be controlled, limited and monitored by the facility as specified below:

		Final Lin	1ITATIONS	Drugu	MONITORING REQUIREMENTS	
EFFLUENT PARAMETERS	UNITS	Daily Maximum	Monthly Average	MARKS	Minimum Measurement Frequency	SAMPLE TYPE
LIMIT SET: Q						
PHYSICAL						
Flow	MGD	*		-	once/quarter ◊	24 Hr Est.
CONVENTIONAL						
Chemical Oxygen Demand	mg/L	**		120	once/quarter ◊	grab
Oil & Grease	mg/L	**		10	once/quarter ◊	grab
pH [†]	SU	6.5-9.0		-	once/quarter ◊	grab
Total Suspended Solids	mg/L	**		100	once/quarter ◊	grab
METALS						
Copper, Total Recoverable	μg/L	**		22	once/quarter ◊	grab
Iron, Total Recoverable	μg/L	**		4000	once/quarter ◊	grab
Zinc, Total Recoverable	μg/L	**		181	once/quarter ◊	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>OCTOBER 28, 2022</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						

* Monitoring and reporting requirement only.

** Monitoring and reporting requirement with benchmark. See Special Conditions for additional requirements.

*** All samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and occurring at least 72 hours from the previously measurable precipitation event. If a discharge does not occur within the reporting period, report as no discharge. The total amount of precipitation must be noted from the event from which the samples were collected.

♦ Quarterly sampling

	MINIMUM QUARTERLY SAMPLING REQUIREMENTS						
QUARTER	MONTHS	QUARTERLY EFFLUENT PARAMETERS	R EPORT IS D UE				
First	January, February, March	Sample at least once during any month of the quarter	April 28th				
Second	April, May, June	Sample at least once during any month of the quarter	July 28th				
Third	July, August, September	Sample at least once during any month of the quarter	October 28 th				
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28th				

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

OUTFALL #001, #002, #003, #004, #000 #012, #013, #016, #021, #023, #025 Stormwater Only	5,#007,#008, ,#027,#028**	#011, **	TABLE A-2 Final Effluent Limitations And Monitorin Requirements				TORING
The facility is authorized to discharge from outfall(s) as specified. The final effluent limitations shall become effective on <u>August 1, 2024</u> and remain in effect until expiration of the permit. Discharges shall be controlled, limited and monitored by the facility as specified below:					: 1, 2024 and low:		
		Final I		IITATIONS	DENCH	MONITORING REQUIREMENTS	
EFFLUENT PARAMETERS	Units	Daii Maxin	LY IUM	Monthly Average	MARKS	Minimum Measurement Frequency	SAMPLE TYPE
LIMIT SET: Q							
PHYSICAL							
Flow	MGD	*			-	once/quarter ◊	24 Hr Est.
CONVENTIONAL							
Chemical Oxygen Demand	mg/L	**			120	once/quarter ◊	grab
Oil & Grease	mg/L	**			10	once/quarter ◊	grab
pH †	SU	6.5-9	0.0		-	once/quarter \diamond	grab
Total Suspended Solids	mg/L	**			100	once/quarter ◊	grab
METALS							
Copper, Total Recoverable	μg/L	**			22	once/quarter ◊	grab
Iron, Total Recoverable	μg/L	400	0		-	once/quarter ◊	grab
Zinc, Total Recoverable	μg/L	**			181	once/quarter ◊	grab
MONITORING REPORTS SHAI THERE SHALL BE NO DISCHA	L BE SUBMITT	TED <u>QUAI</u> FING SOL	rterl .ids Oi	<u>y;</u> The First I r Visible Foa	REPORT IS DU M IN OTHER '	JE <u>OCTOBER 28, 20</u> Than Trace Amour	<u>24</u> . NTS.

* Monitoring and reporting requirement only.

** Monitoring and reporting requirement with benchmark. See Special Conditions for additional requirements.

*** All samples shall be collected from a discharge resulting from a precipitation event greater than 0.1 inches in magnitude and occurring at least 72 hours from the previously measurable precipitation event. If a discharge does not occur within the reporting period, report as no discharge. The total amount of precipitation must be noted from the event from which the samples were collected.

♦ Quarterly sampling

	MINIMUM QUARTERLY SAMPLING REQUIREMENTS						
QUARTER	MONTHS	QUARTERLY EFFLUENT PARAMETERS	REPORT IS DUE				
First	January, February, March	Sample at least once during any month of the quarter	April 28th				
Second	April, May, June	Sample at least once during any month of the quarter	July 28th				
Third	July, August, September	Sample at least once during any month of the quarter	October 28th				
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28th				

B. SCHEDULE OF COMPLIANCE

Schedules of compliance are allowed per 40 CFR 122.47 and 10 CSR 20-7.031(11). The facility shall attain compliance with final effluent limitations established in this permit as soon as reasonably achievable:

- 1. The facility must consult with a third party to determine holistically how to manage metal pollutant contributions at the site. The facility shall submit interim progress reports detailing progress made in attaining compliance with the final effluent limits for Total Recoverable Iron every 6 months from the effective date of this permit until final effluent limitations come into effect.
- 2. By <u>August 1, 2023, the facility must submit the results of their third party consultation with detailed plans on implementation based on the results of the pollutant study.</u>
- 3. By <u>August 1, 2024,</u> the facility must complete all actions recommended by the third party to reduce metal pollutant contributions. On this date, final effluent limitations for Total Recoverable Iron will come into effect.

Please send progress reports to kcroedmr@dnr.mo.gov and Jessica.Vitale@dnr.mo.gov.

C. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached <u>Part I</u> standard conditions dated <u>August 1, 2014</u>, and hereby incorporated as though fully set forth herein.

D. SPECIAL CONDITIONS

- 1. Spills, Overflows, and Other Unauthorized Discharges.
 - (a) Any spill, overflow, or other discharge(s) not specifically authorized are unauthorized discharges.
 - (b) Should an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.
- 2. Any discharge not meeting permitted limits may be pumped and hauled to an accepting wastewater treatment facility, or otherwise properly disposed.
- 3. Electronic Discharge Monitoring Report (eDMR) Submission System. The NPDES Electronic Reporting Rule, 40 CFR Part 127, reporting of effluent monitoring data and any report required by the permit (unless specifically directed otherwise by the permit), shall be submitted via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data for the NPDES program. The eDMR system is currently the only Department-approved reporting method for this permit unless specified elsewhere in this permit, or a waiver is granted by the Department. The facility must register in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before the first report is due. All reports uploaded into the system shall be reasonably named so they are easily identifiable, such as "WET Test Chronic Outfall 002 Jan 2023", or "Outfall004-DailyData-Mar2025".
- 4. Stormwater Pollution Prevention Plan (SWPPP).

The facility's SIC code or description is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2) and hence shall implement a Stormwater Pollution Prevention Plan (SWPPP) which must be prepared and implemented upon permit effective date. The SWPPP must be kept on-site and not sent to the Department unless specifically requested. The SWPPP must be reviewed and updated annually or if site conditions affecting stormwater change. The facility shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in: *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002 March 2021) https://www.epa.gov/sites/production/files/2021-03/documents/swppp_guide_industrial_2021_030121.pdf The purpose of the SWPPP and the Best Management Practices (BMPs) listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was ineffective at providing the necessary protections for which it was designed. Corrective action describes the steps the facility took to eliminate the deficiency. The SWPPP must include:

- (a) A listing of specific contaminants and their control measures (BMPs) and a narrative explaining how BMPs are implemented to control and minimize the amount of contaminants potentially entering stormwater.
- (b) A map with all outfalls and structural BMPs marked.
- (c) If within the boundaries of a regulated Municipal Separate Storm Sewer System (MS4s), list the name of the regulated MS4.

- (d) A schedule for at least once per month site inspections and brief written reports. The inspection report must include precipitation information for the entire period since last inspection, as well as observations and evaluations of BMP effectiveness. A BMP is considered to be disrupted if it is rendered ineffective as a result of damage or improper maintenance. Categorization of a deficiency is reliant on the length of time required to correct each disrupted BMP. Corrective action after discovering a disrupted BMP must be taken as soon as possible. Throughout coverage under this permit, the facility must perform ongoing SWPPP review and revision to incorporate any site condition changes.
 - (1) Operational deficiencies are disrupted BMPs which the facility is able to and must correct within 7 calendar days.
 - (2) Minor structural deficiencies are disrupted BMPs which the facility is able to and must correct within 14 calendar days.
 - (3) Major structural deficiencies (deficiencies projected to take longer than 14 days to correct) are disrupted BMPs which must be reported as an uploaded attachment through the eDMR system with the DMRs. The initial report shall consist of the deficiency noted, the proposed remedies, the interim or temporary remedies (including proposed timing of the placement of the interim measures), and an estimate of the timeframe needed to wholly complete the repairs or construction. If required by the Department, the facility shall work with the regional office to determine the best course of action. The facility should consider temporary structures to control stormwater runoff. The facility shall correct the major structural deficiency as soon as reasonably achievable.
 - (4) All actions taken to correct the deficiencies shall be included with the written report, including photographs, and kept with the SWPPP. Additionally, corrective action of major structural deficiencies shall be reported as an uploaded attachment through the eDMR system with the DMRs.
 - (5) BMP failure causing discharge through an unregistered outfall is considered an illicit discharge and must be reported in accordance with Standard Conditions Part I.
 - (6) Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to Department personnel upon request. Electronic versions of the documents and photographs are acceptable.
- (e) A provision for designating a responsible individual for environmental matters and a provision for providing training to all personnel involved in housekeeping, material handling (including but not limited to loading and unloading), storage, and staging of all operational, maintenance, storage, and cleaning areas. Proof of training shall be submitted upon request by the Department.
- 5. Site-wide minimum Best Management Practices (BMPs). At a minimum, the facility shall adhere to the following:
 - (a) Provide good housekeeping practices on the site to keep trash from entry into waters of the state. Dumpsters should remain closed when not in use.
 - (b) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, warehouse activities, and other areas, to prevent the contamination of stormwater from these substances.
 - (c) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - (d) Store all paint, solvents, petroleum products, petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so these materials are not exposed to stormwater or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of stormwater with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater. Spill records should be retained on-site.
 - (e) Provide sediment and erosion control sufficient to prevent or minimize sediment loss off of the property, and to protect embankments from erosion.
 - (f) Wash water for vehicles, building(s), or pavement must be handled in a no-discharge manner (infiltration, hauled off-site, etc.). Describe the no-discharge method used and include all pertinent information (quantity/frequency, soap use, effluent destination, BMPs, etc.) in the application for renewal. If wash water is not produced, note this instead.
 - (g) After snow or ice, if the facility applies sand/salt to the pavement of parking lots, sidewalks, or stairs, the facility shall sweep the lots to remove sand/salt as soon as possible after snow or ice melt, collect excess solids, and minimize and control the discharge of solids into stormwater inlets. Salt and sand shall be stored in a manner minimizing mobilization in stormwater (for example: under roof, in covered container, in secondary containment, under tarp, etc.).
 - (h) Secondary containment areas for all products shall be inspected at least quarterly and leaks shall be fixed as soon as possible to prevent stormwater contamination.
- 6. In addition to the minimum BMPs found in special condition #5, the permittee has committed to the following BMP measures:
 - (a) Permittee will conduct focused exterior inspections of the entire facility to identify equipment and materials which need to be relocated or covered to eliminate their exposure to stormwater. These focused inspections are also intended to identify areas where additional BMPs may be needed. The facility will be divided into four (4) sub-areas which are inspected weekly. This will ensure the entire facility is inspected once per month. The four sub areas are split as follows: 1) Stamping Plant 2) Truck

Body & Truck Paint 3) Main Plant (East Side) 4) Main Plant (West Side). A map of the designated areas and inspection notes will be kept with SWPPP documents.

- (b) The facility will use gutter buddies and drain inserts as needed to improve discharge monitoring data for iron and zinc. Locations where gutter buddies and drain inserts are needed will be determined based on the results of focused inspections. Gutter buddies and drain inserts shall be maintained as necessary to operate as designed. BMP maintenance records and a map showing the locations BMPs are placed will be stored with the SWPPP.
- (c) Retention ponds, check dams, and swales will be installed when new construction is built, if possible. New construction BMPs will be included in an updated SWPPP document upon completion of new construction.
- (d) The facility will sweep the site roadways, including parking lots and roads within the facility fence line, at least once per quarter. Areas which require more frequent sweeping will be identified during the focused monthly inspection, and additional sweeping will be arranged for those areas as necessary.
- (e) If inspections and DMR data show a need for increased BMPs for iron or zinc, but the facility does not implement changes within 30 days, this is considered a permit violation.
- 7. Stormwater Benchmarks. This permit stipulates numeric pollutant benchmarks applicable to the facility's stormwater discharges.
 - (a) Benchmarks do not constitute direct numeric effluent limitations; therefore, a benchmark exceedance alone is not a permit violation. Stormwater monitoring, numeric benchmark compliance, and visual inspections shall be used to determine the overall effectiveness of the BMPs identified in the SWPPP.
 - (b) If a sample exceeds a benchmark concentration, the facility must review the SWPPP and BMPs to determine what improvements or additional controls are needed to reduce pollutant concentrations in future stormwater discharges.
 - (c) Every time a numeric benchmark exceedance occurs, a Corrective Action Report (CAR) must be completed. A CAR is a document recording the efforts undertaken by the facility to improve BMPs to meet benchmarks in future samples. CARs must be retained with the SWPPP and be available to the Department upon request, unless otherwise specified in the special condition above.
 - (d) Failure to take corrective action to address numeric benchmark exceedance, and failure to make measureable progress towards achieving the numeric benchmark(s), is a permit violation and may result in the establishment of limits instead of benchmarks for the next permit term.
 - (e) Stormwater benchmarks and required minimum BMPs as described in this permit are enforceable permit conditions. Any requested change(s) to numeric benchmark values or deviation from minimum BMP requirements must be established through the permitting process. Assessment, evaluation, and implementation of specific BMPs to meet numeric benchmarks or minimum BMP requirements, must be addressed through the SWPPPs and CARs.
- 8. Proper and continued operation and maintenance pursuant to 40 CFR 122.41(e). At all times the facility shall properly operate, maintain, and control all systems of treatment and control (and related appurtenances) which are installed or used by the facility to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a facility only when the operation is necessary to achieve compliance with the conditions of the permit.
- 9. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with 644.051.16 RSMo for permit shield, and the CWA §402(k) for toxic substances. This permit may be reopened and modified, or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under CWA §§301(b)(2)(C) and (D), §304(b)(2), and §307(a)(2), if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or controls any pollutant not already limited in the permit. This permit may be modified, revoked and reissued, or terminated for cause, including determination new pollutants found in the discharge not identified in the application for the new or revised permit. The filing of a request by the facility for a permit modification, termination, notice of planned changes, or anticipated non-compliance does not stay any permit condition.
- 10. All outfalls must be clearly marked in the field.
- 11. Report no discharge when a discharge does not occur during the report period. It is a violation of this permit to report nodischarge when a discharge has occurred.
- 12. Reporting of Non-Detects.
 - (a) Compliance analysis conducted by the facility or any contracted laboratory shall be conducted in such a way the precision and accuracy of the analyzed result can be enumerated. See sufficiently sensitive test method requirements in Standard Conditions Part I, §A, No. 4 regarding proper testing and detection limits used for sample analysis. For the purposes of this permit, the definitions in 40 CFR 136 apply; method detection limit (MDL) and laboratory-established reporting limit (RL)

are used interchangeably in this permit. The reporting limits established by the laboratory must be below the lowest effluent limits established for the specified parameter (including any parameter's future limit after an SOC) in the permit unless the permit provides for an ML.

- (b) The facility shall not report a sample result as "non-detect" without also reporting the MDL. Reporting "non-detect" without also including the MDL will be considered failure to report, which is a violation of this permit.
- (c) For the daily maximum, the facility shall report the highest value; if the highest value was a non-detect, use the less than "<" symbol and the laboratory's highest method detection limit (MDL) or the highest reporting limit (RL); whichever is higher (e.g. <6).</p>
- (d) When calculating monthly averages, zero shall be used in place of any value(s) not detected. Where all data used in the average are below the MDL or RL, the highest MDL or RL shall be reported as "<#" for the average as indicated in item (c).
- 13. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).
- 14. This permit does not apply to fertilizer products receiving a current exemption under the Missouri Clean Water Law and regulations in 10 CSR 20-6.015(3)(B)8, and are land applied in accordance with the exemption.
- 15. This permit does not allow stream channel or wetland alterations unless approved by Clean Water Act §404 permitting authorities.
- 16. This permit does not authorize in-stream treatment, the placement of fill materials in flood plains, placement of solid materials into any waterway, the obstruction of stream flow, or changing the channel of a defined drainage course.
- 17. The water tower systems (excluding the tower associated with Outfall #005) shall not be drained to waters of the state, but rather shall be drained to the sanitary sewer or other POTW, or irrigated in a manner such that it does not enter waters of the state. Water discharged for fire suppression purposes (including testing of fire hydrants, risers, etc.) is exempt from this condition, and is not regulated under this permit.
- 18. All records required by this permit may be maintained electronically per 432.255 RSMo. These records should be maintained in a searchable format.
- 19. Changes in Discharges of Toxic Pollutant.

In addition to the reporting requirements under 40 CFR 122.41, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director per 40 CFR 122.42(a)(1) and (2) as soon as recognizing:

- (a) An activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - (1) One hundred micrograms per liter (100 μ g/L);
 - (2) Two hundred micrograms per liter (200 μ g/L) for acrolein and acrylonitrile;
 - (3) Five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
 - (4) One milligram per liter (1 mg/L) for antimony;
 - (5) Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
 - (6) The notification level established by the Department in accordance with 40 CFR 122.44(f).
- (b) Any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 μ g/L);
 - (2) One milligram per liter (1 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).
 - (4) The level established by the Director in accordance with 40 CFR 122.44(f).
- (c) Authorization of new or expanded pollutant discharges may be required under a permit modification or renewal, and may require an antidegradation review.
- 20. This permit does not authorize the facility to accept, treat, or discharge wastewater from other sources. If the facility would like to accept, treat, or discharge wastewater from another activity or facility, the permit must be modified to include external wastewater pollutant sources in the permit.
- 21. Any discharges (or qualified activities such as land application) not expressly authorized in this permit, and not clearly disclosed in the permit application, cannot become authorized or shielded from liability under CWA section 402(k) or Section 644.051.16, RSMo, by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including any other permit

applications, funding applications, the SWPPP, discharge monitoring reporting, or during an inspection. Submit a permit modification application, as well as an antidegradation determination if appropriate, to request authorization of new or expanded discharges.

- 22. Renewal Application Requirements.
 - (a) This facility shall submit an appropriate and complete application to the Department no less than 180 days prior to the expiration date listed on page 1 of the permit.
 - (b) Application materials shall include complete Form A, and Form C. If the form names have changed, the facility should ensure they are submitting the correct forms as required by regulation.
 - (c) The facility must sample the stormwater outfalls and provide analysis for every parameter contained in the permit at any outfall for at the site in accordance with 10 CSR 20-6.200(2)(C)1.E(I) and (II).
 - (d) The facility shall submit al monitoring data required by Special Condition 6 with their renewal application.
 - (e) The facility may use the electronic submission system to submit the application to the Program, if available.

E. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to pursue an appeal before the administrative hearing commission (AHC) pursuant to 621.250 and 644.051.6 RSMo. To appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Any appeal should be directed to:

Administrative Hearing Commission U.S. Post Office Building, Third Floor 131 West High Street, P.O. Box 1557 Jefferson City, MO 65102-1557 Phone: 573-751-2422 Fax: 573-751-5018 Website: https://ahc.mo.gov

MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0004936 FORD MOTOR COMPANY – KC ASSEMBLY PLANT

The Federal Water Pollution Control Act (Clean Water Act (CWA) §402 Public Law 92-500 as amended) established the National Pollutant Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of stormwater from certain point sources. All such discharges are unlawful without a permit (§301 of the Clean Water Act). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal Clean Water Act and Missouri Clean Water Law 644 RSMo as amended). MSOPs may also cover underground injection, non-discharging facilities, and land application facilities. Permits are issued for a period of five (5) years unless otherwise specified for less.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)(A)2.] a factsheet shall be prepared to give pertinent information regarding applicable regulations, rationale for the development of limitations and conditions, and the public participation process for the Missouri State Operating Permit (MSOP or permit) listed below. A factsheet is not an enforceable part of a permit.

PART I. FACILITY INFORMATION

Facility Type:	Industrial: Categorical
Facility SIC Code(s):	3711
Application Date:	10/26/2021
Expiration Date:	03/30/2022
Last Inspection:	06/21/2013; Out of compliance

FACILITY DESCRIPTION:

Ford Motor Company--Kansas City Assembly plant builds light duty trucks and transit vans. The facility discharges stormwater from 16 monitored outfalls. Non-contact cooling water and process wastewater are not discharged from this facility. All non-contact cooling water and wastewater is sent to an onsite wastewater pre-treatment plant and discharged to the Kansas City sanitary sewer system. Non-contact cooling water and wastewater are not authorized for discharge under this permit. The plant structure consists of the main plant, the stamping plant, the body shop, and the paint shop. Each of these divisions is housed in their own building, with roads and parking lots between. The plant areas are crossed by a rail line which is not owned by Ford Motor Company. Plant operations support includes a powerhouse, raw material storage (tanks, containers, and scrap metal), emission control systems, warehouse storage, and shipping and receiving areas. A fire suppression water-tower is maintained onsite which is discharged for fire suppression purposes; see special conditions. Water from this tower is not regulated if it is discharged for fire suppression purposes.

PERMITTED FEATURES TABLE:

Outfall	Average Flow (MGD)	Treatment Level	Effluent type
#001	dependent on precipitation	BMPs	Industrial stormwater
#002	dependent on precipitation	BMPs	Industrial stormwater
#003	dependent on precipitation	BMPs	Industrial stormwater
#004	dependent on precipitation	BMPs	Industrial stormwater
#006	dependent on precipitation	BMPs	Industrial stormwater
#007	dependent on precipitation	BMPs	Industrial stormwater
#008	dependent on precipitation	BMPs	Industrial stormwater
#011	dependent on precipitation	BMPs	Industrial stormwater
#012	dependent on precipitation	BMPs	Industrial stormwater
#013	dependent on precipitation	BMPs	Industrial stormwater
#016	dependent on precipitation	BMPs	Industrial stormwater
#020	dependent on precipitation	BMPs	Industrial stormwater
#021	dependent on precipitation	BMPs	Industrial stormwater
#023	dependent on precipitation	BMPs	Industrial stormwater
#025	dependent on precipitation	BMPs	Industrial stormwater
#027	dependent on precipitation	BMPs	Industrial stormwater
#028	dependent on precipitation	BMPs	Industrial stormwater

FACILITY MAP:





FACILITY PERFORMANCE HISTORY & COMMENTS:

The electronic discharge monitoring reports were reviewed for the last five years. Most outfalls had at least one pH exceedances at varying times, though Outfall #0025 had a total of eleven exceedances during the twenty reporting periods. Outfall #016 had Total Recoverable Copper exceedances during 1st and 3rd Quarter 2016. Outfall #021 had exceedances for oil and grease during 3rd Quarter 2016 and 2nd Quarter 2017.

There were numerous exceedances for Total Recoverable Iron during the previous permit cycle. Please see Limits and Derivation for additional information.

CONTINUING AUTHORITY:

Pursuant to 10 CSR 20-6.010(2)(A) and (E), the Department has received the appropriate continuing authority authorized signature from the facility. The Missouri Secretary of State continuing authority charter number for this facility is F00003503; this number was verified by the permit writer to be associated with the facility and precisely matches the continuing authority reported by the facility.

Pursuant to 10 CSR 20-6.010(2)(B)4, this facility is a Level 4 Authority.

- Pursuant to 10 CSR 20-6.010(2)(D), the higher level authority provided a waiver under 10 CSR 20-6.010(2)(C)1.
 - This provision does not supersede or prohibit any domestic wastewater already routed, or proposed to be routed to the accepting wastewater treatment service. The acceptance of domestic wastewater does not meet the definition of becoming managed by a preferential higher authority.
 - This provision does not prohibit pretreatment or industrial user negotiation this facility may have with the local accepting wastewater treatment service. An industrial user status is not a change of continuing authority. This facility may be subject to local limits applied by the accepting wastewater treatment facility.

OTHER ENVIRONMENTAL PERMITS:

In accordance with 40 CFR 122.21(f)(6), the facility reported no other environmental permits.

PART II. RECEIVING WATERBODY INFORMATION

RECEIVING WATERBODY TABLE:

OUTFALL	WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	DISTANCE TO SEGMENT (MILES)	12-digit HUC
#001	Shoal Creek	Р	397	AQL, IRR, LWW, SCR, WBC-B, HHP	0.0	
#002	Shoal Creek	Р	397	AQL, IRR, LWW, SCR, WBC-B, HHP	0.0	
#003	100K Extent-Remaining Stream Locally known as Mill Creek	С	3960	AQL, IRR, LWW, SCR, WBC-B, HHP	0.0	
1100.4	Tributary to Mill Creek	n/a	n/a	GEN	0.02	
#004	100K Extent-Remaining Stream Locally known as Mill Creek	С	3960	AQL, IRR, LWW, SCR, WBC-B, HHP	0.02	
11000	Tributary to Mill Creek	n/a	n/a	GEN	0.02	
#006	100K Extent-Remaining Stream Locally known as Mill Creek	С	3960	AQL, IRR, LWW, SCR, WBC-B, HHP	0.02	
11007	Tributary to Shoal Creek	n/a	n/a	GEN	0.07	
#007	Shoal Creek	Р	396	AQL, IRR, LWW, SCR, WBC-B, HHP	0.07	
	Tributary to Shoal Creek	n/a	n/a	GEN	0.10	
#008	Shoal Creek	Р	396	AQL, IRR, LWW, SCR, WBC-B, HHP	0.10	
	Tributary to Mill Creek	n/a	n/a	GEN	0.04	10300101-0303
#011	100K Extent-Remaining Stream Locally known as Mill Creek	C	3960	AQL, IRR, LWW, SCR, WBC-B, HHP	0.04	Middle Shoal Creek
#012	100K Extent-Remaining Stream Locally known as Mill Creek	C	3960	AQL, IRR, LWW, SCR, WBC-B, HHP	0.0	
#013	100K Extent-Remaining Stream Locally known as Mill Creek	C	3960	AQL, IRR, LWW, SCR, WBC-B, HHP	0.0	
#016	8-20-13 MUDD V1.0 Locally known as Mill Creek	С	3960	AQL, IRR, LWW, SCR, WBC-B, HHP	0.0	
	Tributary to Mill Creek			AOL, IRR, LWW, SCR.		
#021	100K Extent-Remaining Stream Locally known as Mill Creek	С	3960	WBC-B, HHP	0.13	
#023	100K Extent-Remaining Stream Locally known as Mill Creek	С	3960	AQL, IRR, LWW, SCR, WBC-B, HHP	0.0	
#025	100K Extent-Remaining Stream Locally known as Mill Creek	C	3960	AQL, IRR, LWW, SCR, WBC-B, HHP	0.0	
	Tributary to Shoal Creek	n/a	n/a	GEN	0.77	
#027	Shoal Creek	Р	396	AQL, IRR, LWW, SCR, WBC-B, HHP	0.27	
#028	Tributary to Shoal Creek	n/a	n/a	GEN	_	
	Shoal Creek	Р	396	AQL, IRR, LWW, SCR, WBC-B, HHP	0.27	

Classes are representations of hydrologic flow volume or lake basin size as defined in 10 CSR 20-7.031(1)(F). L1: Lakes with drinking water supply - wastewater discharges are not permitted to occur to L1 watersheds per 10 CSR 20-7.015(3)(C); L2: major reservoirs; L3: all other public and private lakes; P: permanent streams; C: streams which may cease flow in dry periods but maintain pools supporting aquatic life; E: streams which do not maintain surface flow; and W: wetlands. Losing streams are defined in 10 CSR 20-7.031(1)(O) and are designated on the losing stream dataset or determined by the Department to lose 30% or more of flow to the subsurface.

WBID: Waterbody Identification Number: Missouri Use Designation Dataset per 10 CSR 20-7.031(1)(Q) and (S) as 100K Extant-Remaining Streams or newer; data can be found as an ArcGIS shapefile on MSDIS at <u>ftp://msdis.missouri.edu/pub/Inland_Water_Resources/MO_2014_WQS_Stream_Classifications_and_Use_shp.zip;</u> New C streams described on the dataset per 10 CSR 20-7.031(2)(A)3 as 100K Extent Remaining Streams.

HUC: Hydrologic Unit Code https://water.usgs.gov/GIS/huc.html

Designated Uses:

10 CSR 20-7.031(1)(C)1: ALP – Aquatic Life Protection (formerly AQL); current uses are defined to ensure the protection and propagation of fish shellfish and wildlife, further subcategorized as: WWH – Warm Water Habitat; CLH – Cool Water Habitat; CDH – Cold Water Habitat; EAH – Ephemeral Aquatic Habitat; MAH – Modified Aquatic Habitat; LAH – Limited Aquatic Habitat. This permit uses ALP effluent limitations in 10 CSR 20-7.031 Table A1-B3 for all habitat designations unless otherwise specified.

10 CSR 20-7.031(1)(C)2: Recreation in and on the water

WBC is Whole Body Contact recreation where the entire body is capable of being submerged;

WBC-A – whole body contact recreation supporting swimming uses and has public access;

- WBC-B whole body contact recreation not included in WBC-A;
- **SCR** = Secondary Contact Recreation (like fishing, wading, and boating)

10 CSR 20-7.031(1)(C)3 to 7:

HHP (formerly HHF) – Human Health Protection as it relates to the consumption of fish and drinking of water;

IRR – irrigation for use on crops utilized for human or livestock consumption, includes aquifers per 10 CSR 20-7.031(6)(A);

LWW – Livestock and Wildlife Watering (current narrative use is defined as LWP = Livestock and Wildlife Protection), includes aquifers per 10 CSR 20-7.031(6)(A);

DWS - Drinking Water Supply, includes aquifers per 10 CSR 20-7.031(6)(A);

IND – industrial water supply

10 CSR 20-7.031(1)(C)8 to 11: Wetlands (10 CSR 20-7.031 Tables A1-B3) do not have corresponding habitat use criteria for these defined uses: WSA – storm- and flood-water storage and attenuation; WHP – habitat for resident and migratory wildlife species; WRC – recreational, cultural, educational, scientific, and natural aesthetic values and uses; WHC – hydrologic cycle maintenance.
O CSP 20 7 2015(0) – 110 CSP 20 7 2015(0) – CSP 40 7 201

10 CSR 20-7.015(7) and 10 CSR 20-7.031(6): GRW = Groundwater

Other Applicable Criteria:

10 CSR 20-7.031(4): **GEN** – general criteria; acute toxicity criteria applicable to all waters even those lacking designated uses 10 CSR 20-7.031(5)(N)6: **NNC** – lake numeric nutrient criteria apply Water Quality Standards Search <u>https://apps5.mo.gov/mocwis_public/waterQualityStandardsSearch.do</u>

WATERS OF THE STATE DESIGNATIONS:

Waters of the state are divided into seven categories per 10 CSR 20-7.015(1)(B)1 through 7. The applicable water of the state category is listed below. Missouri's technology-based effluent regulations are found in [10 CSR 20-7.015] and are implemented in 10 CSR 20-7.015(2) through (8). When implementing technology regulations, considerations are made for the facility type, discharge type, and category of waters of the state. Stormwater discharges and land application sites are not subject to limitations found in 10 CSR 20-7.015. Effluent limitation derivations are discussed in PART IV: EFFLUENTS LIMITS DETERMINATIONS.

✓ All other waters; identified at 10 CSR 20-7.015(B)7 and 10 CSR 20-7.015(8).

EXISTING WATER QUALITY & IMPAIRMENTS:

The receiving waterbody(s) segment(s), upstream, and downstream confluence water quality was reviewed. No relevant water quality data was available. The USGS https://waterdata.usgs.gov/nwis/sw or the Department's quality data database was reviewed. https://apps5.mo.gov/mocwis_public/wqa/waterbodySearch.do and https://apps5.mo.gov/wqa/ The Department's quality data database was reviewed. https://apps5.mo.gov/mocwis_public/wqa/waterbodySearch.do and https://apps5.mo.gov/wqa/ Impaired waterbodies which may be impacted by discharges from this facility were determined. Impairments include waterbodies on the 305(b) or 303(d) list and those waterbodies or watersheds under a TMDL. https://dnr.mo.gov/water/what-were-doing/water-planning/quality-standards-impaired-waters-total-maximum-daily-loads/tmdls Section 303(d) of the federal Clean Water Act requires each state identify waters not meeting water quality standards and for which adequate water pollution controls have not been required. https://dnr.mo.gov/water/what-were-doing/water-planning/quality-standards-impaired-waters-total-maximum-daily-loads/impaired-waters Swater quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock, and wildlife. The 303(d) list helps state and federal agencies keep track of impaired waters not addressed by normal water pollution control programs. A TMDL is a calculation of the maximum amount of a given pollutant a water body can absorb before its water quality is affected; hence, the purpose of a TMDL is to determine the pollutant loading a specific waterbody can assimilate without exceeding water quality standards. If a water body is determined to be impaired as listed on the §303(d) list, then a watershed management plan or TMDL for that watershed may be developed. The

TMDL shall include the WLA calculation.

✓ The Missouri River Watershed is associated with the EPA approved TMDL for chlordanes and PCBs. This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment, as production of these pollutants was banned in 1988 and 1977, respectively.

WATERBODY MONITORING REQUIREMENTS:

 \checkmark No waterbody monitoring requirements are recommended at this time.

WATERBODY MIXING CONSIDERATIONS:

For all wastewater outfalls, mixing zone and zone of initial dilution are not allowed per 10 CSR 20-7.031(5)(A)4.B.(I)(a) and (b), as the base stream flow does not provide dilution to the effluent. For information how this regulation is used in determining effluent limits with or without mixing, see WASTELOAD ALLOCATION in Part III. If the base stream flow is above 0.1 cfs, mixing may be applied if 1) zones of passage are present, 2) mixing velocities are sufficient and stream bank configuration allows, 3) the aquatic life support system is maintained, 4) mixing zones do not overlap, 5) there are no drinking water intakes in the vicinity downstream, 6) the stream or lake has available pollutant loading to be allocated, and 7) downstream uses are protected. If mixing was not allowed in this permit, the facility may submit information, such as modeling, as to why mixing should be afforded to the outfall. \checkmark This is a stormwater only permit therefore traditional mixing is not considered.

PART III. RATIONALE AND DERIVATION OF PERMIT CONDITIONS

ANTIBACKSLIDING:

Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(l)] require a reissued permit to be as stringent as the previous permit with some exceptions. Backsliding (a less stringent permit limitation) is only allowed under certain conditions. ✓ Limitations in this operating permit reissuance conform to the anti-backsliding provisions of CWA §402(o), and 40 CFR 122.44.

- 40 CFR 122.44(l)(i)(B)(1); information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) which would have justified the application of a less stringent effluent limitation.
 - Monitoring for Outfall #020 has been removed, as the facility has not been able to collect a direct stormwater sample at any reporting period during the previous five years due to low flow.
 - Settleable solids monitoring has been removed, as the permit writer established numeric benchmarks for Total Suspended Solids, which is sufficiently representative and protective for solids in the stormwater.
 - Precipitation monitoring has been removed, as requiring permittees to collect this information is unnecessarily time consuming given that it is readily available online.
 - The previous permit special conditions contained a specific set of prohibitions related to general criteria (GC) found in 10 CSR 20-7.031(4); however, there was no determination as to whether the discharges have reasonable potential to cause or contribute to excursion of those general water quality criteria in the previous permit. This permit assesses each general criteria as listed in the previous permit's special conditions. Federal regulations 40 CFR 122.44(d)(1)(iii) requires instances where reasonable potential (RP) to cause or contribute to an exceedance of a water quality standard exists, a numeric limitation must be included in the permit. Rather than conducting the appropriate RP determination, the previous permit simply placed the prohibitions in the permit. These conditions were removed from the permit. Appropriate reasonable potential determinations were conducted for each general criterion listed in 10 CSR 20-7.031(4)(A) through (I) and effluent limitations were placed in the permit for those general criteria where it was determined the discharge had reasonable potential to cause or contribute to excursions of the general criteria. Specific effluent limitations were not included for those general criteria where it was determined the discharges will not cause or contribute to excursions of general criteria. Removal of the prohibitions does not reduce the protections of the permit or allow for impairment of the receiving stream. The permit maintains sufficient effluent limitations, monitoring requirements and best management practices to protect water quality while maintaining permit conditions applicable to facility disclosures and in accordance with 10 CSR 20-7.031(4) where no water contaminant by itself or in combination with other substances shall prevent the water of the state from meeting the following conditions:
 - (A) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses.
 - For all outfalls, there is no RP for putrescent bottom deposits preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates putrescent wastewater would be discharged from the facility.
 - For all outfalls, there is no RP for unsightly or harmful bottom deposits preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates unsightly or harmful bottom deposits would be discharged from the facility.
 - (B) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses.
 - For all outfalls, there is no RP for oil in sufficient amounts to be unsightly preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates oil will be present in sufficient amounts to impair beneficial uses.
 - For all outfalls, there is no RP for scum and floating debris in sufficient amounts to be unsightly preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates scum and floating debris will be present in sufficient amounts to impair beneficial uses.
 - (C) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses.
 - For all outfalls, there is RP for possibly unsightly color given the numerous Total Recoverable Iron exceedances during the previous permit cycle. However, the permit writer has established numeric benchmarks to limit Total

Recoverable Iron discharges that may impair color, and the facility has committed to improving their BMPs related to this parameter.

- For all outfalls, there is no RP for offensive odor in sufficient amounts preventing full maintenance of beneficial uses because nothing disclosed by the facility indicates offensive odor will be present in sufficient amounts to impair beneficial uses.
- (D) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life.
 - The permit writer considered specific toxic pollutants when writing this permit, including the consideration of WET testing. Numeric effluent limitations are included for those pollutants which could be discharged in toxic amounts. These effluent limitations are protective of human health, animals, and aquatic life. Specific toxic pollutants are discussed below in Derivation and Discussion of Limits, and where appropriate, numeric effluent limitations added.
- (E) Waters shall maintain a level of water quality at their confluences to downstream waters that provides for the attainment and maintenance of the water quality standards of those downstream waters, including waters of another state.
 - This criteria was not assessed for antibacksliding as this is a new requirement, approved by the EPA on July 30, 2019.
- (F) There shall be no significant human health hazard from incidental contact with the water.
- This criterion is very similar to (D) above. See Part IV, Effluent Limits Derivation below.
- (G) There shall be no acute toxicity to livestock or wildlife watering.
 - This criterion is very similar to (D) above. See Part IV, Effluent Limits Derivation below.
- (H) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community.
 - For all outfalls, there is no RP for physical changes impairing the natural biological community because nothing disclosed by the facility indicates this is occurring.
 - It has been established any chemical changes are covered by the specific numeric effluent limitations established in the permit.
- (I) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law 260.200 RSMo, except as the use of such materials is specifically permitted pursuant to 260.200 through 260.247 RSMo.
 - There are no solid waste disposal activities or any operation which has reasonable potential to cause or contribute to the materials listed above being discharged through any outfall.
- The previous permit's special conditions required sampling of total petroleum hydrocarbons (TPH) under the decision model to discharge stormwater having a sheen in secondary containment. The special condition has been revised in all permits beginning in 2015 to remove TPH as 40 CFR 136 does not contain any approved methods for the TPH parameter nor are there water quality standards for TPH. This permit requires oil and grease and BTEX (benzene, toluene, ethylbenzene, and xylene) sampling of the potentially contaminated stormwater in secondary containment. The facility need only sample for these constituents prior to release when a sheen or petroleum odor is present.
- The previous permit special condition stated: "Any pesticide discharge from any point source shall comply with the requirements of Federal Insecticide, Fungicide and Rodenticide Act, as amended (7 U.S.C. 136 et. seq.) and the use of such pesticides shall be in a manner consistent with its label."
- The permit writer has determined this special condition was outside the scope of NPDES permitting and was removed.
 The previous permit special condition indicated spills from hazardous waste substances must be reported to the department. However, this condition is covered under standard conditions therefore was removed from special conditions.

ANTIDEGRADATION REVIEW:

Process water discharges with new, altered, or expanding flows, the Department is to document, by means of antidegradation review, if the use of a water body's available assimilative capacity is justified. In accordance with Missouri's water quality regulations for antidegradation [10 CSR 20-7.031(3)], degradation may be justified by documenting the socio-economic importance of a discharge after determining the necessity of the discharge. Facilities must submit the antidegradation review request to the Department prior to establishing, altering, or expanding discharges. See https://dnr.mo.gov/document-search/antidegradation-implementation-procedure Per [10 CSR 20-7.015(4)(A)], new discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream, or connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

✓ Not applicable; the facility has not submitted information proposing expanded or altered process water discharge; no further degradation proposed therefore no further review necessary.

BEST MANAGEMENT PRACTICES:

Minimum site-wide best management practices are established in this permit to ensure all facilities are managing their sites equally to protect waters of the state from certain activities which could cause negative effects in receiving water bodies. While not all sites require a SWPPP because the SIC codes are specifically exempted in 40 CFR 122.26(b)(14), these best management practices are not specifically included for stormwater purposes. These practices are minimum requirements for all industrial sites to protect waters of the state. If the minimum best management practices are not followed, the facility may violate general criteria [10 CSR 20-7.031(4)]. Statutes are applicable to all permitted facilities in the state, therefore pollutants cannot be released unless in accordance with 644.011 and 644.016 (17) RSMo.

CLOSURE:

To properly decontaminate and close a wastewater basin, the facility must draft a complete closure plan, and include the Closure Request Form #2512 <u>https://dnr.mo.gov/document-search/facility-closure-request-form-mo-780-2512</u> The publication, Wastewater Treatment Plant Closure - PUB2568 found at <u>https://dnr.mo.gov/print/document-search/pub2568</u> may be helpful to develop the closure plan. The regional office will then approve the closure plan, and provide authorization to begin the work. The regional office contact information can be found here: <u>https://dnr.mo.gov/about-us/division-environmental-quality/regional-office</u>

COST ANALYSIS FOR COMPLIANCE (CAFCOM):

Pursuant to 644.145 RSMo, when incorporating a new requirement for discharges from publicly owned facilities, or when enforcing provisions of this chapter or the CWA, pertaining to any portion of a publicly owned facility, the Department shall make a finding of affordability on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the CWA. This process is completed through a CAFCom. Permits not including new requirements may be deemed affordable.

✓ The Department is not required to complete a cost analysis for compliance because the facility is not publicly owned.

CHANGES IN DISCHARGES OF TOXIC POLLUTANT:

This special condition reiterates the federal rules found in 40 CFR 122.44(f) for technology treatments and 122.42(a)(1) for all other toxic substances. In these rules, the facility is required to report changes in amounts of toxic substances discharged. Toxic substances are defined in 40 CFR 122.2 as "...any pollutant listed as toxic under section 307(a)(1)" or, in the case of "sludge use or disposal practices," any pollutant identified in regulations implementing section 405(d) of the CWA." Section 307 of the clean water act then refers to those parameters listed in 40 CFR 401.15 and any other toxic parameter the Department determines is applicable for reporting under these rules in the permit. The facility should also consider any other toxic pollutant in the discharge as reportable under this condition and must report all increases to the Department as soon as discovered in the effluent. The Department may open the permit to implement any required effluent limits pursuant to CWA §402(k) where sufficient data was not supplied within the application but was supplied at a later date by either the facility or other resource determined to be representative of the discharge, such as sampling by Department personnel.

COMPLIANCE AND ENFORCEMENT:

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

✓ Not applicable; the facility is not currently under Water Protection Program enforcement action.

DISCHARGE MONITORING REPORTING - ELECTRONIC (EDMR) SUBMISSION SYSTEM:

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by requiring electronic data reporting. To comply with the federal rule, the Department is requiring all facilities to submit discharge monitoring data and reports online. To review historic data, the Department's database has a publically facing search engine, available at https://apps5.mo.gov/mocwis_public/dmrDisclaimer.do

Registration and other information regarding MoGEM can be found at https://dnr.mo.gov/mogem. Information about the eDMR system can be found at https://dnr.mo.gov/env/wpp/edmr.htm.The first user shall register as an Organization Official and the association to the facility must be approved by the Department. To access the eDMR system, use: https://apps5.mo.gov/mogems/welcome.action For assistance using the eDMR system, contact edmr@dnr.mo.gov or call 855-789-

3889 or 573-526-2082. To assist the facility in entering data into the eDMR system, the permit describes limit sets designators in each table in Part A of the permit. Facility personnel will use these identifiers to ensure data entry is being completed appropriately. For example, M for monthly, Q for quarterly, A for annual, and others as identified.

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a facility must first submit an eDMR Waiver Request form available on the Department's web page. A request must be made for each operating permit. An approved waiver is not transferable. The Department must review and notify the facility within 120 calendar days of receipt if the waiver request has been approved or rejected [40 CFR 124.27(a)].

During the Department review period as well as after a waiver is granted, the facility must continue submitting a hard-copy of any reports required by their permit. The Department will enter data submitted in hard-copy from those facilities allowed to do so, and electronically submit the data to the EPA on behalf of the facility.

✓ This facility has not been granted a waiver, nor would this facility qualify for a waiver.

DOMESTIC WASTEWATER, SLUDGE, AND BIOSOLIDS:

Domestic wastewater is defined as wastewater originating primarily from the sanitary conveyances of bathrooms and kitchens. Domestic wastewater excludes stormwater, wash water, animal waste, process and ancillary wastewater.

✓ Not applicable; this facility discharges domestic wastewater to an off-site permitted wastewater treatment facility (POTW).

Sewage sludge is solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Biosolids are solid materials resulting from domestic wastewater treatment meeting federal and state criteria for productive use (i.e. fertilizer) and after having pathogens removed.

✓ Not applicable; the facility does not manage domestic wastewater on-site.

EFFLUENT LIMITATIONS:

Two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs) are reviewed. Permits are required to establish the most stringent or most protective limit. If the TBEL or WQBEL does not provide adequate protection for the receiving water, then the other must be used per 10 CSR 20-7.015(9)(A) or 40 CFR 122.44(b)(1). See WASTELOAD ALLOCATION below which describes how WQBEL wasteload allowances are established under the permit. Effluent limitations derived and established for this permit are based on current operations of the facility. Any flow through the outfall is considered a discharge and must be sampled and reported as provided in the permit. Daily maximums and monthly averages are required per 40 CFR 122.45(d)(1) for continuous discharges (not from a POTW).

EMERGENCY DISCHARGE:

For non-discharging permits, some permits may allow a small amount of wastewater discharge under very specific circumstances. ✓ Not applicable; this permit does not contain conditions allowing emergency discharges.

FEDERAL EFFLUENT LIMITATION GUIDELINES:

Effluent Limitation Guidelines, or ELGs, are found at 40 CFR 400-499. <u>https://www.ecfr.gov/current/title-40/chapter-I/subchapter-N</u> These are limitations established by the EPA based on the SIC code and the type of work a facility is conducting. Most ELGs are for process wastewater and some address stormwater. Effluent guidelines are not always established for every pollutant present in a point source discharge. In many instances, EPA promulgates effluent guidelines for an indicator pollutant. Industrial facilities complying with the effluent guidelines for the indicator pollutant will also control other pollutants (e.g. pollutants with a similar chemical structure). For example, EPA may choose to regulate only one of several metals present in the effluent from an industrial category, and compliance with the effluent guidelines will ensure similar metals present in the discharge are adequately controlled. All are technology based limitations which must be met by the applicable facility at all times. Should Reasonable Potential be established for any particular parameter, and water-quality derived effluent limits are more protective of the receiving water's quality, the WQS will be used as the limiting factor in accordance with 40 CFR 122.44(d) and 10 CSR 20-7.015(9)(A).

✓ The facility has an associated ELG (40 CFR 438) but does not discharge wastewater to waters of the state; stormwater discharges are not addressed by the ELG.

GENERAL CRITERIA CONSIDERATIONS:

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into permits for pollutants determined to cause, have reasonable potential to cause, or to contribute to, an excursion above any water quality standard, including narrative water quality criteria. In order to comply with this regulation, the permit writer has completed a reasonable potential determination on whether discharges have reasonable potential to cause, or contribute to an excursion of the general criteria listed in 10 CSR 20-7.031(4). In instances where reasonable potential exists, the permit includes limitations to address the reasonable potential. In discharges where reasonable potential does not exist, the permit may include monitoring to later determine the discharge's potential to impact the narrative criteria. Additionally, 644.076.1 RSMo, as well as Part I §D – Administrative Requirements of Standard Conditions included in this permit state it shall be unlawful for any person to cause or allow any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of §§644.006 to 644.141 of the Missouri Clean Water Law or any standard, rule, or regulation promulgated by the commission. See Part IV for specific determinations.

GROUNDWATER MONITORING:

Groundwater is a water of the state according to 644.016(27) RSMo, is subject to regulations at 10 CSR 20-7.015(7) and 10 CSR 20-7.031(6), and must be protected accordingly.

✓ This facility is not required to monitor groundwater for the water protection program.

LAND APPLICATION:

Land application, or surficial dispersion of wastewater and/or sludge, is performed by facilities as an alternative to discharging. Authority to regulate these activities is pursuant to 644.026 RSMo. The Department implements requirements for these types of operations pursuant to 10 CSR 20-6.015(4)(A)1 which instructs the Department to develop permit conditions containing limitations, monitoring, reporting, and other requirements to protect soils, crops, surface waters, groundwater, public health, and the environment. \checkmark Not applicable; this permit does not authorize operation of a surficial land application system to disperse wastewater or sludge.

LAND DISTURBANCE:

Land disturbance, sometimes called construction activities, are actions which cause disturbance of the root layer or soil; these include clearing, grading, and excavating of the land. 40 CFR 122.26(b)(14) and 10 CSR 20-6.200(3) requires permit coverage for these activities. Coverage is not required for facilities when only providing maintenance of original line and grade, hydraulic capacity, or to continue the original purpose of the facility.

Not applicable; this permit does not provide coverage for land disturbance activities. The facility may obtain a separate land disturbance permit (MORA) online at <u>https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance</u> MORA permits do not cover disturbance of contaminated soils, however, site specific permits such as this one can be modified to include appropriate controls for land disturbance of contaminated soils by adding site-specific BMP requirements and additional outfalls.

MAJOR WATER USER:

Any surface or groundwater user with a water source and the equipment necessary to withdraw or divert 100,000 gallons (or 70 gallons per minute) or more per day combined from all sources from any stream, river, lake, well, spring, or other water source is considered a major water user in Missouri. <u>https://dnr.mo.gov/water/business-industry-other-entities/reporting/major-water-users</u> All major water users are required by law to register water use annually (Missouri Revised Statutes Chapter 256.400 Geology, Water Resources and Geodetic Survey Section). <u>https://dnr.mo.gov/document-search/frequently-asked-major-water-user-questions-pub2236/pub2236</u>

 \checkmark Not applicable; this facility cannot withdraw water from the state in excess of 70 gpm or 0.1 MGD.

METALS:

Effluent limitations for total recoverable metals were developed using methods and procedures outlined in the *Technical Support Document For Water Quality-based Toxic Controls* (EPA/505/2-90-001) and *The Metals Translator: Guidance For Calculating a Total Recoverable Permit Limit From a Dissolved Criterion* (EPA 823-B-96-007). "Aquatic Life Protection" in 10 CSR 20-7.031 Tables A1 and A2, as well as general criteria protections in 10 CSR 20-7.031(4) apply to this discharge. The hardness value used for hardness-dependent metals calculations is typically based on the ecoregion's 50th percentile (also known as the median) per 10 CSR 20-7.015(1)(CC), and is reported in the calculations below, unless site specific data was provided. Per a memorandum dated August 6, 2019, the Director has determined permit writers should use the median of the Level III Ecoregion to calculate permit limits, or site specific data if applicable. Additional use criterion (HHP, DWS, GRW, IRR, or LWW) may also be used, as applicable, to determine the most protective effluent limit for the receiving waterbody's class and uses. HHP, DWS, GRW, IRR, or LWW do not take hardness into account.

MODIFICATION REQUESTS:

Facilities have the option to request a permit modification from the Department at any time under RSMo 644.051.9. Requests must be submitted to the Water Protection Program with the appropriate forms and fees paid per 10 CSR 20-6.011. It is recommended facilities contact the permit writer early so the correct forms and fees are submitted, and the modification request can be completed in a timely fashion. Minor modifications, found in 40 CFR 122.63, are processed without the need for a public comment period. Major modifications, those requests not explicitly fitting under 40 CFR 122.63, do require a public notice period. Modifications to permits should be completed when: a new pollutant is found in the discharge; operational or functional changes occur which affect the technology, function, or outcome of treatment; the facility desires alternate numeric benchmarks; or other changes are needed to the permit.

Modifications are not required when utilizing or changing additives in accordance with the publication <u>https://dnr.mo.gov/document-search/additive-usage-wastewater-treatment-facilities-pub2653/pub2653</u> nor are required when a temporary change or provisional discharge has been authorized by the regional office. While provisional discharges may be authorized by the regional office, they will not be granted for more than the time necessary for the facility to obtain an official modification from the Water Protection Program. Temporary provisional discharges due to weather events or other unforeseen circumstances may or may not necessitate a permit modification. The facility may ask for a Compliance Assistance Visit (CAV) from the regional office to assist in the decision-making process; CAVs are provided free to the permitted entity.

MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4):

This permit allows discharge to waters of the state. The discharges this permit allows may flow into and through the city's stormwater collection system. Regulated MS4s are managed by public entities, cities, municipalities, or counties. Phase I MS4s are Kansas City, Independence, and Springfield. Phase II MS4s are determined by population or location in an urbanized area. Regulated MS4s are required to develop and maintain a stormwater management program. These programs have requirements for developing and implementing a plan to detect and eliminate illicit discharges to the storm sewer system. Phase I MS4s also maintain oversight programs for industrial and high risk runoff. Regulated MS4s may keep a list of all of the other regulated dischargers (wastewater and stormwater) flowing through their system. If this facility discharges into a separate storm sewer system, the facility should make contact with the owner/operator of that system to coordinate with them. Regulated MS4 operators may request to inspect facilities discharging into their system; a list of regulated MS4s can be viewed at https://dnr.mo.gov/document-search/missouris-regulated-municipal-separate-storm-sewer-systems-ms4s or search by permit ID: MOR04 at

https://apps5.mo.gov/mocwis_public/permitSearch.do to determine if this facility needs to contact a local stormwater authority.

NUTRIENT MONITORING:

Nutrient monitoring is required for facilities characteristically or expected to discharge nutrients (nitrogenous compounds and/or phosphorus) when the design flow is equal to or greater than 0.1 MGD per 10 CSR 20-7.015(9)(D)8. This requirement is applicable to all Missouri waterways.

✓ This is a stormwater only permit therefore not subject to provisions found in 10 CSR 20-7.015 per 10 CSR 20-7.015(1)(C).

Water quality standards per 10 CSR 20-7.031(5)(N) describe nutrient criteria requirements assigned to lakes (which include reservoirs) in Missouri, equal to or greater than 10 acres during normal pool conditions. The Department's Nutrient Criteria Implementation Plan (NCIP) may be reviewed at: <u>https://dnr.mo.gov/document-search/nutrient-criteria-implementation-plan-july-27-2018</u> Discharges of wastewater in to lakes or lake watersheds designated as L1 (drinking water use) are prohibited per 10 CSR 20-7.015(3)(C).

 \checkmark Not applicable; this facility does not discharge in a lake watershed or the lake is less than 10 acres.

OIL/WATER SEPARATORS:

Oil water separator (OWS) tank systems are frequently found at industrial sites where process water and stormwater may contain oils and greases, oily wastewaters, or other immiscible liquids requiring separation. Food industry discharges typically require pretreatment prior to discharge to municipally owned treatment works. Per 10 CSR 26-2.010(2)(B), all oil water separator tanks must be operated according best management practices and USTs may be authorized in NPDES permits per 10 CSR 26-2.010(2) or otherwise may be regulated as a petroleum tank. Sludge generated by OWS is a waste pursuant to 10 CSR 25-11.279 requiring specific management standards pursuant to self-implementing regulations of 40 CFR Part 279.

✓ Not applicable; the facility has not disclosed the use of any oil water separators they wish to include under the NPDES permit at this facility, therefore oil water separator tanks are not authorized by this permit.

OPERATOR CERTIFICATION REQUIREMENTS:

Operators or supervisors of operations at regulated domestic wastewater treatment facilities shall be certified in accordance with 10 CSR 20-9 and any other applicable state law or regulation.

✓ Not applicable; this facility is not required to have a certified operator. This permit does not cover domestic wastewater or the domestic wastewater population equivalent (PE) is less than two hundred (200) individuals. Additionally, this facility is not owned or operated by a municipality, public sewer district, county, public water supply district, or private sewer company regulated by the Public Service Commission, or operated by a state or federal agency. Private entities are exempted from the population equivalent requirement unless the Department has reason to believe a certified operator is necessary.

PFAS VOLUNTARY SAMPLING:

The Department is implementing voluntary sampling of per-and polyfluoroalkyl substances, or more commonly known as PFAS. PFAS are a group of compounds common in industrial processes which degrade slowly in the environment and have suspected health effects such as cancer, decreased immune response, hepatotoxicity, and low infant birth weight. Deleterious effects can occur at levels as low as parts per trillion, or 1/1,000,000,000,000 of a gram. EPA plans to 1) require additional testing for facilities within industry groups having the highest likelihood of discharging PFAS; 2) promulgate Effluent Limitation Guidelines for these facilities; and 3) designate PFAS as RCRA hazardous wastes prior to 2024, per their PFAS Strategic Roadmap. Removal technologies for PFAS remain both traditionally expensive and resource-intensive. As such, understanding this facility's reasonable potential to violate future potential effluent limitations prior to their implementation will inform required process improvements in the future.

This facility deals with metal production and finishing. PFAS are primarily used as wetting agents, mist and fume suppressants, agents to reduce mechanical wear, or surface coatings to reduce corrosion. PFAS are especially prevalent in chromium electroplating facilities. The Department recommends sampling using a modified Test Method 537, found here: https://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=348508&Lab=CESER&simpleSearch=0&showCriteria=2&sear_chAll=537.1&TIMSType=&dateBeginPublishedPresented=03%2F24%2F2018. Analytes for which to sample include PFBS, PFHxS, PFOS, 4:2 FTSA, 6:2 FTSA, 8:2 FTSA, PFBA, PFPeA, PFHxA, PFHpA, and PFOA. Sample results may be submitted with this permit's renewal application.

PERMIT SHIELD:

The permit shield provision of the Clean Water Act (Section 402(k)) and Missouri Clean Water Law (644.051.16 RSMo) provides that when a permit holder is in compliance with its NPDES permit or MSOP, it is effectively in compliance with certain sections of the Clean Water Act, and equivalent sections of the Missouri Clean Water Law. In general, the permit shield is a legal defense against certain enforcement actions, but is only available when the facility is in compliance with its permit and satisfies other specific conditions, including having completely disclosed all discharges and all facility processes and activities to the Department at time of application. It is the facility's responsibility to ensure that all potential pollutants, waste streams, discharges, and activities, as well as wastewater land application, storage, and treatment areas, are all fully disclosed to the Department at the time of application or during the draft permit review process. Previous permit applications are not necessarily evaluated or considered during permit renewal actions. All relevant disclosures should be provided with each permit application, including renewal applications, even when the same information was previously disclosed flows, or for authorization for previously unpermitted and undisclosed activities or discharges, will likely require an official permit modification, including another public participation process.

PRETREATMENT:

This permit does not regulate pretreatment requirements for facilities discharging to an accepting permitted wastewater treatment facility. If applicable, the receiving entity (the publicly owned treatment works - POTW) is to ensure compliance with any effluent limitation guidelines for pretreatment listed in 40 CFR Subchapter N per 10 CSR 20-6.100. Pretreatment regulations per 644.016 RSMo are limitations on the introduction of pollutants or water contaminants into publicly owned treatment works or facilities.

 Applicable; this entity reported wastewater is discharged to a POTW and falls under a category requiring pretreatment requirements.

REASONABLE POTENTIAL (RP):

Regulations per 10 CSR 20-7.015(9)(A)2 and 40 CFR 122.44(d)(1)(i) requires effluent limitations for all pollutants which are (or may be) discharged at a level causing or have the reasonable potential to cause (or contribute to) an in-stream excursion above narrative or numeric water quality standards. Per 10 CSR 20-7.031(4), general criteria shall be applicable to all waters of the state at all times; however, acute toxicity criteria may be exceeded by permit allowance in zones of initial dilution, and chronic toxicity criteria may be exceeded by permit allowance in mixing zones. If the permit writer determines any given pollutant has the reasonable potential to cause or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for the pollutant per 40 CFR Part 122.44(d)(1)(iii) and the most stringent limits per 10 CSR 20-7.031(9)(A).

Permit writers use reasonable potential determinations (RPD) as provided in Sections 3.1.2, 3.1.3, and 3.2 of the TSD. An RPD consists of evaluating visual observations, non-numeric information, or small amounts of numerical data (such as 1 data point supplied in the application). A stormwater RPD consists of reviewing application data and/or discharge monitoring data and comparing those data to narrative or numeric water quality criteria. RPD decisions are based on minimal numeric samples, the type of effluent proposed for discharge, or the unavailability of numerical RPA for a parameter, such as pH, or oil and grease. Absent effluent data, effluent limits are derived without consideration of effluent variability and is assumed to be present unless found to be absent to meet the requirements of antidegradation review found in 10 CSR 20-7.031(3) and reporting of toxic substances pursuant to 40 CFR 122.44(f).

Reasonable potential determinations are also performed for WET testing in wastewater. While no WET regulations specific to industrial wastewater exist, 40 CFR 122.21(j)(5) implies the following should be considered: 1) the variability of the pollutants; 2) the ratio of wastewater flow to receiving stream flow; and 3) current technology employed to remove toxic pollutants. Generally, sufficient data does not exist to mathematically determine RPA for WET, but permit writers compare the data for other toxic parameters in the wastewater with the necessity to implement WET testing with either monitoring or limits. When toxic parameters exhibit RP, WET testing is generally included in the permit. However, if all toxic parameters are controlled via limitations or have exhibited no toxicity in the past, then WET testing may be waived. Only in instances where the wastewater is well characterized can WET testing be waived. Permit writers do not implement WET testing for stormwater as 10 CSR 20-7.015(9)(L) does not apply to stormwater. Precipitation can itself be acidic, or may contain run-in from other un-controlled areas and can provide false positives. The Department works with the Missouri Department of Conservation and has understanding of streams already exhibiting toxicity; even without the influence of industrial wastewater or stormwater. Facilities discharging to streams with historic toxicity are required to use laboratory water for dilution, instead of the receiving stream.

Permit writers use the Department's permit writer's manual (<u>https://dnr.mo.gov/water/business-industry-other-entities/technical-assistance-guidance/wastewater-permit-writers-manual</u>), the EPA's permit writer's manual (<u>https://www.epa.gov/npdes/npdes-permit-writers-manual</u>), program policies, and best professional judgment. For each parameter in each permit, the permit writer carefully considers all applicable information regarding: technology based effluent limitations, effluent limitation guidelines, water quality standards, inspection reports, stream water quality information, stream flows, uses assigned to each waterbody, and all applicable site specific information and data gathered by the facility through discharge monitoring reports and renewal (or new) application sampling. Best professional judgment is based on the experience of the permit writer, cohorts in the Department and resources at the EPA, research, and maintaining continuity of permits if necessary.

For stormwater permits, the permit writer is required per 10 CSR 6.200(6)(B)2 to consider: A. application and other information supplied by the facility; B. effluent guidelines; C. best professional judgment of the permit writer; D. water quality; and E. BMPs. Part IV provides specific decisions related to this permit.

Secondly, permit writers use mathematical reasonable potential analysis (RPA) using the *Technical Support Document for Water Quality Based Toxics Control (TSD)* methods (EPA/505/2-90-001) for continuous discharges. The TSD RPA method cannot be performed on stormwater as the flow is intermittent. See additional considerations under Part II WATERBODY MIXING CONSIDERATIONS and Part III WASTELOAD ALLOCATIONS. Wasteload allocations are determined utilizing the same equations and statistical methodology.

 No statistical RPAs were performed for this permit, as the conditions for stormwater were based on standardized benchmarks and best professional judgment.

REGIONAL OFFICES (ROS):

Regional Offices will provide a compliance assistance visit at a facility's request; a regional map with links to phone numbers can be found here: <u>https://dnr.mo.gov/about-us/division-environmental-quality/regional-office</u>. Or use <u>https://dnr.mo.gov/compliance-assistance-enforcement</u> to request assistance from the Region online.

RENEWAL REQUIREMENTS:

The renewal special condition permit requirement is designed to guide the facility to prepare and include all relevant and applicable information in accordance with 10 CSR 20-6.010(7)(A)-(C), and if applicable, federal regulations. The special condition may not include all requirements and requests for additional information may be made at the time of permit renewal under 644.051.13(5) RSMo and 40 CFR 122.21(h). Prior to submittal, the facility must review the entire submittal to confirm all required information and data is provided; it is the facility's responsibility to discern if additional information is required. Failure to fully disclose applicable information with the application or application addendums may result in a permit revocation per 10 CSR 20-6.010(8)(A) and may result in the forfeiture of permit shield protection authorized in 644.051.16 RSMo. Forms are located at: https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/wastewater

SAMPLING FREQUENCY JUSTIFICATION:

Sampling frequency for stormwater-only outfalls is typically quarterly even though BMP inspection occurs monthly or more often dependent on site needs. The facility may sample more frequently if additional data is required to determine if best management operations and technology are performing as expected.

SAMPLING TYPE JUSTIFICATION:

Sampling type was continued from the previous permit. The sampling types are representative of the discharges, and are protective of water quality. Discharges with altering effluent should have composite sampling; discharges with uniform effluent can have grab samples. Grab samples are usually appropriate for stormwater. Parameters which must have grab sampling are: pH, ammonia, *E. coli*, total residual chlorine, free available chlorine, hexavalent chromium, dissolved oxygen, total phosphorus, volatile organic compounds, and others. For further information on sampling and testing methods see 10 CSR 20-7.015(9)(D)2.

SCHEDULE OF COMPLIANCE (SOC):

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, effluent limits, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit. SOCs are allowed under 40 CFR 122.47 and 10 CSR 20-7.031(11) providing certain conditions are met. An SOC is not allowed:

- For effluent limitations based on technology-based standards established in accordance with federal requirements, if the deadline for compliance established in federal regulations has passed in accordance with 40 CFR 125.3.
- For a newly constructed facility in most cases per 644.029 RSMo. Newly constructed facilities must meet all applicable effluent limitations (technology and water quality) when discharge begins. New facilities are required to install the appropriate control technologies as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study associated with development of a site specific criterion. A facility is not prohibited from conducting these activities, but a SOC may not be specifically granted for conducting these activities.

In order to provide guidance in developing SOCs, and to attain a greater level of consistency, the Department issued a policy on development of SOCs on October 25, 2012. The policy provides guidance to permit writers on standard time frames for schedules for common activities, and guidance on factors to modify the length of the schedule.

✓ Applicable; the time given for effluent limitations of this permit listed under Interim Effluent Limitations and Final Effluent Limitations were established in accordance with [10 CSR 20-7.031(11)]. The facility has been given a schedule of compliance to meet final effluent limits for Total Recoverable Iron. Typically stormwater-only permits do not have schedules of compliance; however, given the severity of Total Recoverable Iron benchmark exceedances, a limit is appropriate. See the Limit Derivation section of the Fact Sheet for additional information. See permit Section B for compliance dates.

SPILLS, OVERFLOWS, AND OTHER UNAUTHORIZED DISCHARGE REPORTING:

Per 260.505 RSMo, any emergency involving a hazardous substance must be reported to the Department's 24 hour Environmental Emergency Response hotline at (573) 634-2436 at the earliest possible moment after discovery. The Department may require the submittal of a written report detailing measures taken to clean up a spill. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the noncompliance reporting requirement found in Standard Conditions Part I.

https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl=

Any other spills, overflows, or unauthorized discharges reaching waters of the state must be reported to the regional office during normal business hours, or after normal business hours, to the Department's 24 hour Environmental Emergency Response spill line at 573-634-2436.

Certain industrial facilities are subject to the self-implementing regulations for Oil Pollution Prevention in 40 CFR 112, and are required to initiate and follow Spill Prevention, Control, and Countermeasure (SPCC) Plans. This permit, as issued, is not intended to be a replacement for any SPCC plan, nor can this permit's conditions be automatically relaxed based on the SPCC plan if the permit is more stringent than the plan.

SLUDGE - INDUSTRIAL:

Industrial sludge is solid, semi-solid, or liquid residue generated during the treatment of industrial process or non-process wastewater in a treatment works; including but not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment process; scum and solids filtered from water supplies and backwashed; and any material derived from industrial sludge. Industrial sludge could also be derived from lagoon dredging or other similar maintenance activities. Certain oil sludge, like those from oil water separators, are subject to self-implementing federal regulations under 40 CFR 279 for used oils.

 \checkmark Not applicable; industrial sludge is not generated at this facility.

STANDARD CONDITIONS:

The standard conditions Part I attached to this permit incorporate all sections of 10 CSR 20-6.010(8) and 40 CFR 122.41(a) through (n) by reference as required by law. These conditions, in addition to the conditions enumerated within the standard conditions should be reviewed by the facility to ascertain compliance with this permit, state regulations, state statutes, federal regulations, and the Clean Water Act. Standard Conditions Part III, if attached to this permit, incorporate requirements dealing with domestic wastewater, domestic sludge, and land application of domestic wastes.

STORMWATER PERMITTING: LIMITATIONS AND BENCHMARKS:

Because of the fleeting nature of stormwater discharges, the Department, under the direction of EPA guidance, has determined monthly averages are capricious measures of stormwater-only discharges. The *Technical Support Document for Water Quality Based Toxics Control* (EPA/505/2-90-001; 1991) §3.1 indicates most procedures within the document apply only to water quality based approaches, not end-of-pipe technology-based controls. Hence, stormwater-only outfalls will generally only contain a maximum daily limit (MDL), a benchmark, or a monitoring requirement as dictated by site specific conditions, the BMPs in place, the BMPs proposed, past performance of the facility, and the receiving water's current quality.

When a permitted feature or outfall consists of only stormwater, a benchmark may be implemented at the discretion of the permit writer, if there is no RP for water quality excursions.

✓ Applicable, this facility has stormwater-only outfalls where benchmarks or limitations were deemed appropriate contaminant measures.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

Pursuant to 40 CFR 122.44(k), Best Management Practices (BMPs) must be used to control or abate the discharge of pollutants when: 1) Authorized under §304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; 2) Authorized under §402(p) of the CWA for the control of stormwater discharges; 3) Numeric effluent limitations are infeasible; or 4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA. A BMP may take the form of a numeric benchmark. In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002) published by the EPA in 2015 and again in 2021 https://www.epa.gov/sites/default/files/2021-03/documents/swppp guide industrial 2021 030121.pdf BMPs are measures or practices used to reduce the amount of pollution entering waters of the state from a permitted facility. BMPs may take the form of a process, activity, or physical structure. Additionally in accordance with the Stormwater Management, a SWPPP is a series of steps and activities to 1) identify sources of pollution or contamination, and 2) select and carry out actions which prevent or control the pollution of storm water discharges. Additional information can be found in *Stormwater Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices* (EPA 832-R-92-006; September 1992).

Developing a SWPPP provides opportunities to employ appropriate BMPs to minimize the risk of pollutants being discharged during storm events. The following paragraph outlines the general steps the facility should take to determine which BMPs will work to achieve the benchmark values or limits in the permit. This section is not intended to be all encompassing or restrict the use of any physical BMP or operational and maintenance procedure assisting in pollution control. Additional steps or revisions to the SWPPP may be required to meet the requirements of the permit.

The facility should review the precipitation frequency maps for development of appropriate BMPs. The online map <u>https://hdsc.nws.noaa.gov/hdsc/pfds/pfds_map_cont.html?bkmrk=mo</u> can be targeted to the facility location and is useful when designing detention structures and planning for any structural BMP component. The stormwater map can also be used to determine if the volume of stormwater caused a disrupted BMP; and if the BMP should be re-designed to incorporate additional stormwater flows.

Areas which should be included in the SWPPP are identified in 40 CFR 122.26(b)(14). Once the potential sources of stormwater pollution have been identified, a plan should be formulated to best control the amount of pollutant being released and discharged by each activity or source. This should include, but is not limited to, minimizing exposure to stormwater, good housekeeping measures, proper facility and equipment maintenance, spill prevention and response, vehicle traffic control, and proper materials handling. Once a plan has been developed the facility will employ the control measures determined to be adequate to achieve the benchmark values discussed above. The facility will conduct monitoring and inspections of the BMPs to ensure they are working properly and re-evaluate any BMP not achieving compliance with permitting requirements. For example, if sample results from an outfall show values of TSS above the benchmark value, the BMP being employed is deficient in controlling stormwater pollution. Corrective action should be taken to repair, improve, or replace the failing BMP. This internal evaluation is required at least once per month but should be continued more frequently if BMPs continue to fail. If failures do occur, continue this trial and error process until appropriate BMPs have been established.

For new, altered, or expanded stormwater discharges, the SWPPP shall identify reasonable and effective BMPs while accounting for environmental impacts of varying control methods. The antidegradation analysis must document why no discharge or no exposure options are not feasible. The selection and documentation of appropriate control measures shall serve as an alternative analysis of technology and fulfill the requirements of antidegradation [10 CSR 20-7.031(3)]. For further guidance, consult the antidegradation implementation procedure (https://dnr.mo.gov/document-search/antidegradation-implementation-procedure).

Alternative Analysis (AA) evaluation of the BMPs is a structured evaluation of BMPs which are reasonable and cost effective. The AA evaluation should include practices designed to be: 1) non-degrading; 2) less degrading; or 3) degrading water quality. The glossary of AIP defines these three terms. The chosen BMP will be the most reasonable and effective management strategy while ensuring the highest statutory and regulatory requirements are achieved and the highest quality water attainable for the facility is discharged. The AA evaluation must demonstrate why "no exposure" is not a feasible alternative at the facility. This structured analysis of BMPs serves as the antidegradation review, fulfilling the requirements of 10 CSR 20-7.031(3) Water Quality Standards and *Antidegradation Implementation Procedure* (AIP), §II.B.

If parameter-specific numeric benchmark exceedances continue to occur and the facility feels there are no practicable or cost-effective BMPs which will sufficiently reduce a pollutant concentration in the discharge to the benchmark values established in the permit, the facility can submit a request to re-evaluate the benchmark values. This request needs to include 1) a detailed explanation of why the facility is unable to comply with the permit conditions and unable to establish BMPs to achieve the benchmark values; 2) financial data of the company and documentation of cost associated with BMPs for review and 3) the SWPPP, which should contain adequate documentation of BMPs employed, failed BMPs, corrective actions, and all other required information. This will allow the Department to conduct a cost analysis on control measures and actions taken by the facility to determine cost-effectiveness of BMPs. The request shall be submitted in the form of an operating permit modification, which includes an appropriate fee; the application is found at: https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/wastewater

 Applicable; a SWPPP shall be developed and implemented for this facility; see specific requirements in the SPECIAL CONDITIONS section of the permit.

SUFFICIENTLY SENSITIVE ANALYTICAL METHODS:

Please review Standard Conditions Part 1, §A, No. 4. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 and/or 40 CFR 136 unless alternates are approved by the Department and incorporated within this permit. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure the selected methods are able to quantify the presence of pollutants in any given discharge at concentrations low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. The reporting limits established by the chosen laboratory must be below the lowest effluent limits established for the specified parameter (including any parameter's future limit after an SOC) in the permit unless the permit provides for an ML or if the facility provides a written rationale to the Department. It is the facility's responsibility to ensure the laboratory has adequate equipment and controls in place to quantify the pollutant. Inflated reporting limits will not be accepted by the Department if the reporting limit is above the parameter value stipulated in the permit.

A method is "sufficiently sensitive" when; 1) the method quantifies the pollutant below the level of the applicable water quality criterion or; 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015 and or 40 CFR 136. These methods are also required for parameters listed as monitoring only, as the data collected may be used to determine if numeric limitations need to be established. A facility is responsible for working with their contractors to ensure the analysis performed is sufficiently sensitive.

UNDERGROUND INJECTION CONTROL (UIC):

The UIC program for all classes of wells in the State of Missouri is administered by the Missouri Department of Natural Resources and approved by EPA pursuant to §§1422 and 1425 of the Safe Drinking Water Act (SDWA) and 40 CFR 147 Subpart AA. Injection wells are classified based on the liquids which are being injected. Class I wells are hazardous waste wells which are banned by 577.155 RSMo; Class II wells are established for oil and natural gas production; Class III wells are used to inject fluids to extract minerals; Class IV wells are also banned by Missouri in 577.155 RSMo; Class V wells are shallow injection wells; some examples are heat pump wells and groundwater remediation wells. Domestic wastewater being disposed of sub-surface is also considered a Class V well. In accordance with 40 CFR 144.82, construction, operation, maintenance, conversion, plugging, or closure of injection wells shall not cause movement of fluids containing any contaminant into Underground Sources of Drinking Water (USDW) if the presence of any contaminant may cause a violation of any drinking water standards or groundwater standards under 10 CSR 20-7.031, or other health based standards, or may otherwise adversely affect human health. If the director finds the injection activity may endanger USDWs, the Department may require closure of the injection wells, or other actions listed in 40 CFR 144.12(c), (d), or (e). In accordance with 40 CFR 144.26, the facility shall submit a Class V Well Inventory Form for each active or new underground injection well drilled, or when the status of a well changes, to the Missouri Department of Natural Resources, Geological Survey Program, P.O. Box 250, Rolla, Missouri 65402. The Class V Well Inventory Form can be requested from the Geological Survey Program or can be found at the following web address: https://dnr.mo.gov/document-search/class-v-well-inventory-form-mo-780-1774 Single family residential septic systems and non-residential septic systems used solely for sanitary waste and having the capacity to serve fewer than 20 persons a day are excluded from the UIC requirements (40 CFR 144.81(9)). The Department implements additional requirements for these types of operations pursuant to 10 CSR 20-6.015(4)(A)1 which instructs the Department to develop permit conditions containing limitations, monitoring, reporting, and other requirements to protect soils, crops, surface waters, groundwater, public health, and the environment.

✓ Not applicable; the facility has not submitted materials indicating the facility will be performing UIC at this site.

VARIANCE:

Per the Missouri Clean Water Law §644.061.4, variances shall be granted for such period of time and under such terms and conditions as specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141. Thermal variances are regulated separately and are found under 644.

 \checkmark Not applicable; this permit is not drafted under premise of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010; definitions], the WLA is the maximum amount of pollutant each discharger is allowed to discharge into the receiving stream without endangering water quality. Only streams with available load allocations can be granted discharge allowances. Outfalls afforded mixing allocations provide higher limits because the receiving stream is able to accept more pollutant loading without causing adverse impacts to the environment or aquatic life.

✓ Not applicable, this is a stormwater only permit therefore WLAs were not calculated. See section on stormwater permitting as applying WLAs to stormwater is not normally applicable per TSD §3.1.

WASTELOAD ALLOCATION (WLA) MODELING:

Facilities may submit site specific studies to better determine the site specific wasteload allocations applied in permits.

✓ Not applicable; a WLA study was either not submitted or determined not applicable by Department staff.

WATER QUALITY STANDARD REVISION:

In accordance with 644.058 RSMo, the Department is required to utilize an evaluation of the environmental and economic impacts of modifications to water quality standards of twenty-five percent or more when making individual site-specific permit decisions.

✓ This operating permit does not contain requirements for a water quality standard changing twenty-five percent or more since the previous operating permit.

PART IV. EFFLUENT LIMIT DETERMINATIONS

ALL OUTFALLS

FINAL EFFLUENT LIMITATIONS TABLE:

PARAMETERS	Unit	Daily Maximum Limit	Bench- MARK	PREVIOUS PERMIT LIMITS	Minimum Sampling Frequency	Reporting Frequency	SAMPLE TYPE	
Physical								
FLOW	MGD	*	-	SAME	ONCE/QUARTER	QUARTERLY	24 hr. estimate	
PRECIPITATION	inches		Removed					
CONVENTIONAL								
COD	mg/L	**	120	SAME	ONCE/QUARTER	QUARTERLY	GRAB	
OIL & GREASE	mg/L	**	10	SAME	ONCE/QUARTER	QUARTERLY	GRAB	
PH [†]	SU	6.5-9.0	-	SAME	ONCE/QUARTER	QUARTERLY	GRAB	
SETTLEABLE SOLIDS	mL/L/hr				REMOVED			
TSS	mg/L	**	100	SAME	ONCE/QUARTER	QUARTERLY	GRAB	
METALS								
COPPER, TR	μg/L	**	22	SAME	ONCE/QUARTER	QUARTERLY	GRAB	
IRON, TR	μg/L	4000	-	**/4000	ONCE/QUARTER	QUARTERLY	GRAB	
ZINC, TR	μg/L	**	181	SAME	ONCE/QUARTER	QUARTERLY	GRAB	

* monitoring and reporting requirement only

** monitoring with associated benchmark

† report the minimum and maximum pH values; pH is not to be averaged

‡ An ML is established for TRC; see permit.

new parameter not established in previous state operating permit

interim parameter requirements prior to end of SOC

final parameter requirements at end of SOC

TR total recoverable

DERIVATION AND DISCUSSION OF LIMITS:

PHYSICAL:

Flow

In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to ensure compliance with permitted effluent limitations. If the facility is unable to obtain effluent flow, then it is the responsibility of the facility to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total flow in millions of gallons per day (MGD), quarterly monitoring continued from previous permit. The facility reported from 0.0001 to 1.874 MGD in the last permit term.

CONVENTIONAL:

Chemical Oxygen Demand (COD)

Monitoring with 120 mg/L daily maximum benchmark is continued from the previous permit using the permit writer's best professional judgment. There is no numeric water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the facility to identify increases in COD may indicate materials/chemicals coming into contact with stormwater causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs. The facility reported from 10.0 to 587 mg/L in the last permit term. The benchmark value falls within the range of values implemented in other permits having similar industrial activities and is achievable through proper BMP controls.

Oil & Grease

Monitoring with a daily maximum benchmark of 10 mg/L; continued from the previous permit per permit writer's best professional judgment. The facility reported from 1.3 to 17.4 mg/L in the last permit cycle. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, and some asphalt and pitch.

The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or xylene, but these constituents are often lost during testing due to their boiling points. It is recommended to perform separate testing for these constituents if they are a known pollutant of concern at the site, i.e. aquatic life toxicity or human health is a concern. Results do not allow for separation of specific pollutants within the test, they are reported, totaled, as "oil and grease". Per 10 CSR 20-7.031 Table A1: *Criteria for Designated Uses*; 10 mg/L is the standard for protection of aquatic life. This standard will also be used to protect the general criteria found at 10 CSR 20-7.031(4). Ten mg/L is the level at which sheen is expected to form on receiving waters. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the facility to visually observe the discharge and receiving waters for sheen or bottom deposits. The benchmark is achievable through proper operational and maintenance of BMPs and falls within the range of values implemented in other permits having similar industrial activities. The benchmark this permit applies does not allow the facility to violate general criteria 10 CSR 20-7.015(4) even if data provided are below the benchmark.

<u>pH</u>

6.5 SU minimum to 9.0 SU maximum benchmarks are applicable to the stormwater outfalls. The permit writer has determined the stormwater has no reasonable potential to negatively impact water quality therefore a benchmark is applied; continued from previous permit. The facility reported from 6.98 to 10.03 SU in the last permit term at all outfalls. pH is a fundamental water quality indicator. This benchmark serves to provide general information about the stormwater discharges at the site.

Total Suspended Solids (TSS)

Monitoring with a daily maximum benchmark of 100 mg/L. This value falls within the range of values implemented in other permits having similar industrial activities and is considered typical and achievable using common BMP practices. MO-R203, the Missouri General Stormwater permit for fabricated metal and light industry, which covers SIC codes 37xx, has a benchmark of 100 mg/L for TSS. There is no numeric water quality standard for TSS; however, sediment discharges can negatively impact aquatic life habitat. TSS is also a valuable indicator parameter. TSS monitoring allows the facility to identify increases in TSS indicating uncontrolled materials leaving the site. Increased suspended solids in runoff can lead to decreased available oxygen for aquatic life and an increase of surface water temperatures in a receiving stream. Suspended solids can also be carriers of toxins, which can adsorb to the suspended particles; therefore, total suspended solids are a valuable indicator parameter for other pollution. The facility reported from 5.0 to 1220 mg/L in the last permit term.

METALS:

Copper, Total Recoverable

Monitoring with a daily maximum benchmark of $22 \mu g/L$ continued from previous permit. It is in the best professional judgment of the permit writer that all outfalls at this facility have similar characteristics and therefore should have the same pollutants of concern applied. Copper is associated with both metals exposed to stormwater and heavy vehicle traffic. This is a pollutant of concern as identified by DMR data at this site; additionally, copper is also identified as a pollutant of concern by MO-R203, the Missouri General Stormwater permit for fabricated metal and light industry, which covers SIC codes 37xx. A benchmark is set to guide the permittee in determining if BMPs are effective in controlling copper. A benchmark is appropriate for this discharge. The facility reported from 2.0 to 270 μ g/L in the last permit term. While there were multiple exceedances of the benchmark, these exceedances typically happened during one specific 9 month period for outfalls near each other and then never occurred again. As such, it is likely that a failed BMP or specific temporary construction project resulted in these values, indicating that they are not typical for this facility.

Iron, Total Recoverable

Daily maximum limit of 4000 μ g/L introduced in opposition of the daily maximum benchmark from the previous permit. The previous permit included a daily maximum benchmark, as this facility is identified in the EPA MSGP as a Sector AA Metal Fabrication industry, and iron is identified as a pollutant of concern for these industries. In addition, iron is identified as a pollutant of concern by MO-R203, the Missouri General Stormwater Permit for the fabricated metal and light industry, covered by SIC code 37xx. As stormwater discharges are not continuous, the previous permit writer used their best professional judgement to determine that application of the chronic water quality standard for iron was overly protective. Instead, they based the benchmark on the concentration in which iron violates general criteria for color per 10 CSR 20-7.031(4)(C), at around 4,000 μ g/L. The previous inspection of this site in 2013 included multiple images of orange staining at Outfall #009 and #015 with possible orange staining at Outfall #011, indicating that these benchmark exceedances of above 4,000 μ g/L are likely violating general criteria for color even though the stormwater discharges are non-continuous.

As a result of the above information, the previous permit introduced additional BMP requirements to address regular exceedances of iron and protect for general criteria for color, including regular inspections and the installation of additional BMPs where DMR data had the highest exceedances. However, discussion with the permittee revealed that inspections had not resulted in significant changes to BMPs despite regular exceedances of established benchmarks, making them ineffective at attaining their original goal.

Currently, iron is a pollutant of concern as identified by DMR data at this site, which shows regular exceedances of up to 33,200 μ g/L. Outfall #006 had exceedances 11 out of 16 reporting periods. Outfall #027 had exceedances half (12 of 24) of the reporting periods in the previous permit cycle with Outfall #025 closely behind in number (11 of 24) and severity of exceedances. The facility had regular exceedances for all other outfalls for this parameter, but less frequently and with lower concentrations of iron. The severity and frequency of benchmark exceedances which likely violate general criteria, in conjunction with the permittee's failure to meet previous narrative conditions to address excessive iron discharge, require the permit writer to address the violations of general criteria numerically. As a result, a hard limit has been imposed for this facility for iron. The facility has been granted a schedule of compliance to address metal concentration concerns at the site prior to the limit being imposed.

Benchmarks can only be provided to discharges not having RP. RP is established based on inspection and historical permit records including discharge monitoring data and visual evidence. To have this limit reverted to a benchmark, the facility must demonstrate over the next permit term that their stormwater discharges have no visual RP for iron.

Zinc, Total Recoverable

Monitoring with a daily maximum benchmark of 181 μ g/L continued from previous permit. Zinc is a pollutant of concern as identified by DMR data at this site; additionally, the EPA MSGP also identify it in Sector AA-Metal Fabrication, which the permit writer applies to this industry using best professional judgment. Zinc is also identified as a pollutant of concern by MO-R203, the Missouri General Stormwater permit for fabricated metal and light industry, which covers SIC codes 37xx. A benchmark is appropriate for this discharge. The facility reported from 13 to 3900 μ g/L in the last permit term. There were numerous exceedances of this parameter, and as such, the facility must improve their BMPs over the next permit term.

PART V. ADMINISTRATIVE REQUIREMENTS

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PUBLIC NOTICE:

The Department shall give public notice a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in or with concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and facility must be notified of the denial in writing. https://dnr.mo.gov/water/what-were-doing/public-notices The Department must issue public notice of a pending operating permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wishing to submit comments regarding this proposed operating permit, please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments. All comments must be in written form.

✓ The Public Notice period for this operating permit started May 13, 2022 and ended June 13, 2022. No comments were received.

DATE OF FACT SHEET: FEBRUARY 24, 2022 COMPLETED BY: JESSICA VITALE, ENVIRONMENTAL ANALYST MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION - INDUSTRIAL UNIT (573) 522-2575; Jessica.Vitale@dnr.mo.gov



These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

Part I – General Conditions

Section A - Sampling, Monitoring, and Recording

1. Sampling Requirements.

- a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.

2. Monitoring Requirements.

a.

- Records of monitoring information shall include:
- i. The date, exact place, and time of sampling or measurements;
- ii. The individual(s) who performed the sampling or measurements;
- iii. The date(s) analyses were performed;
- iv. The individual(s) who performed the analyses;
- v. The analytical techniques or methods used; and
- vi. The results of such analyses.
- b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.
- 3. **Sample and Monitoring Calculations.** Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
- Test Procedures. The analytical and sampling methods used shall conform 4. to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is "sufficiently sensitive" when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
- 5. Record Retention. Except for records of monitoring information required by the permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

6. Illegal Activities.

- a. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than (4) years, or both.
- b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

Section B - Reporting Requirements

1. Planned Changes.

- The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42;
 - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
 - iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.

2. Non-compliance Reporting.

a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
- c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
- 3. Anticipated Noncompliance. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.
- 4. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
- 5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
- 6. **Other Information**. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

7. Discharge Monitoring Reports.

- a. Monitoring results shall be reported at the intervals specified in the permit.
- b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
- c. Monitoring results shall be reported to the Department no later than the 28^{th} day of the month following the end of the reporting period.

Section C - Bypass/Upset Requirements

1. Definitions.

- a. *Bypass*: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
- b. Severe Property Damage: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- c. *Upset:* an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

2. Bypass Requirements.

a. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.

- b. Notice.
 - i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
 - ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
- c. Prohibition of bypass.
 - i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 - 1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - 3. The permittee submitted notices as required under paragraph 2. b. of this section.
 - ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.

3. Upset Requirements.

- a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required in Section B

 Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
 iv. The permittee complied with any remedial measures required under
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
- c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section D - Administrative Requirements

- 1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
 - a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
 - b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement



imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.

- c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
- It is unlawful for any person to cause or permit any discharge of water d. contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

2. Duty to Reapply.

- a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
- b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission

for applications to be submitted later than the expiration date of the existing permit.)

- c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
- 3. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- 4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- 5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

6. Permit Actions.

- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - i. Violations of any terms or conditions of this permit or the law;ii. Having obtained this permit by misrepresentation or failure to
 - disclose fully any relevant facts; iii. A change in any circumstances or conditions that requires either a
 - temporary or permanent reduction or elimination of the authorized discharge; or
 - iv. Any reason set forth in the Law or Regulations.
- b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

7. Permit Transfer.

- a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
- b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
- c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.
- 8. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
- 9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.



- 10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
- 11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
 - Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.

12. Closure of Treatment Facilities.

- a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
- b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.

13. Signatory Requirement.

- a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
- b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
- c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.
- 14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

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		CHECK NUMBER	·		
		DATE RECEIVED	FEE SUBMITTED		
		JET PAY CONFIRMA	TION NUMBER		
PLEASE READ ALL THE ACCOMPANYING INSTRUCTIONS E SUBMITTAL OF AN INCOMPLETE APPLICATION MAY RESU	EFORE COMPLETING THIS F	FORM. NG RETURNE	D.		
IF YOUR FACILITY IS ELIGIBLE FOR A NO EXPOSURE EXEM Fill out the No Exposure Certification Form (Mo 780-2828): <u>https:</u>	IPTION: //dnr.mo.gov/forms/780-2828-f.	<u>pdf</u>	n an		
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3. OWNER NAME Ford Motor Company EMAIL ADDRESS tshell@ford.com ADDRESS (MAILING) One American Road 4. CONTINUING AUTHORITY NAME Ford Motor Company - Kansas City Assembly Plant EMAIL ADDRESS sluebber@ford.com ADDRESS (MAILING) 8121 Northeast US Highway 69 5. OPERATOR CERTIFICATION NAME Ford Motor Company - Kansas City Assembly Plant ADDRESS (MAILING) 8121 Northeast US Highway 69 5. OPERATOR CERTIFICATION NAME Ford Motor Company - Kansas City Assembly Plant ADDRESS (MAILING) 8121 Northeast US Highway 69 6. FACILITY CONTACT NAME Stephanie Luebbering E-MAIL ADDRESS Sluebber@ford.com	CITY Dearborn CITY Claycomo CERTIFICATE NUMBER NA CITY Claycomo TITLE Environmental Engineer	TELEPHONE NU (313) 805-53 STATE MI TELEPHONE NU (816) 414-63 STATE MO TELEPHONE NU (816) 414-63 STATE MO TELEPHONE NU (816) 414-63 TELEPHONE NU (816) 414-63 TELEPHONE NU (816) 414-63 TELEPHONE NU (816) 414-63 TELEPHONE NU (816) 414-63	IMBER WITH AREA CODE 374 ZIP CODE 48126 IMBER WITH AREA CODE 588 ZIP CODE 64119 IMBER WITH AREA CODE 588 ZIP CODE 64119 IMBER WITH AREA CODE 588 ZIP CODE 64119 NUMBER WITH AREA CODE 6588		
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8. ADDI	TIONAL FACILITY INFORMATION				An and a second second
------------------------------	--	---	---	---	-----------------------------
8.1	Legal Description of Outfalls. (Attach ac For Universal Transverse Mercator (UTM), use Z	dditional sheets i Cone 15 North referer	f necessary.) nced to North American	Datum 1983 (NAD8	3)
	0011⁄41⁄4	Sec	Τ	۲۲	County
	UTM Coordinates Easting (X):	Northing (Y):		
	0021⁄41⁄4	Sec	Т	R	County
	UTM Coordinates Easting (X):	Northing (Y):		
	003¼¼	Sec	T	۲ <u> </u>	County
	UTM Coordinates Easting (X):	Northing (Y):		
	004 <u>1/4</u> <u>1/4</u>	Sec	Τ	R	County
	UTM Coordinates Easting (X):	Northing (Y):		
Include	all subsurface discharges and underground i	injection systems f	or permit considerati	on.	
8.2 F	Primary Standard Industrial Classification (SIC	C) and Facility Nor	th American Industri	al Classification Sy	stem (NAICS) Codes.
	SIC and NAICS		SIC	and NAICS	50570
9. ADD	TIONAL FORMS AND MAPS NECESSARY	TO COMPLETE	THIS APPLICATION	I .	
A.	Is this permit for a manufacturing, commerc If yes, complete Form C.	cial, mining, solid/h	azardous waste, or s	silviculture facility?	YES 🗹 NO 🗌
В.	Is the facility considered a "Primary Industry If yes, complete Forms C and D.	y" under EPA guid	elines (40 CFR Part	122, Appendix A) :	
C.	Is wastewater land applied? If yes, complete Form I.				YES 🗌 NO 🗹
D.	Are sludge, biosolids, ash, or residuals gen If yes, complete Form R.	erated, treated, st	pred, or land applied	?	YES 🔲 NO 🗹
E.	Have you received or applied for any permi environmental regulatory authority? If yes, please include a list of all permits or Environmental Permits for this facility:	t or construction a approvals for this 10 - にんのののの	pproval under the C\ facility:	VA or any other	YES 🗹 NO 🗋
F.	Do you use cooling water in your operations If yes, please indicate the source of the wat	s at this facility? er: <u>City water</u>			YES 🗹 NO 🗌
G.	Attach a map showing all outfalls and the re	eceiving stream at	1" = 2,000' scale.		
10. ELE	ECTRONIC DISCHARGE MONITORING REI	PORT (eDMR) SU	BMISSION SYSTEM	٩ ، ،	
Per 40 and mo	CFR Part 127 National Pollutant Discharge E	limination System	(NPDES) Electronic	Reporting Rule, re	porting of effluent limits
consiste visit <u>htt</u>	ent set of data. One of the following must b os://dnr.mo.gov/env/wpp/edmr.htmfor information	be checked in ord	er for this applicati tment's eDMR syste	on to be consider m and how to regis	ed complete. Please ter.
☐ - I w Manage	ill register an account online to participate in ement (MoGEM) before any reporting is due,	the Department's in compliance with	eDMR system throug n the Electronic Repo	gh the Missouri Ga prting Rule.	teway for Environmental
🗹 - l h	ave already registered an account online to p	participate in the D	epartment's eDMR s	ystem through Mo	GEM.
uaivers	ave submitted a written request for a waiver f	from electronic rep	orting. See instructio	ns for further infor	mation regarding
🗌 - Th	e permit I am applying for does not require th	ne submission of d	scharge monitoring	reports.	
MO 780-14	70 (04-21)				

11. FEES

Permit fees may be paid by attaching a check, or online by credit card or eCheck through the JetPay system. Use the URL provided to access JetPay and make an online payment:

For new permits: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/591

For modifications: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/596

12. CERTIFICATION

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

NAME AND OFFICIAL TITLE (TYPE OR PRINT)	TELEPHONE NUMBER WITH AREA CODE
Fred J. Thome, KCAP Plant Manager	816-459-1 601
SIGNATURE Sud Thome	DATE SIGNED
MO 780-1479 (04-2)	



MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH FORM C – APPLICATION FOR DISCHARGE PERMIT – MANUFACTURING, COMMERCIAL, MINING, SILVICULTURE OPERATIONS, AND STORMWATER

GENERAL INFORMATION (PLEASE SEE INSTRUCTIONS)

1.0 NAME OF FACILITY

1.1 THIS FACILITY IS OPERATING UNDER MISSOURI STATE OPERATING PERMIT (MSOP) NUMBER:

1.2 IS THIS A NEW FACILITY? PROVIDE CONSTRUCTION PERMIT (CP) NUMBER IF APPLICABLE.

1.3 Describe the nature of the business, in detail. Identify the goods and services provided by the business. Include descriptions of all raw, intermediate, final products, byproducts, or waste products used in the production or manufacturing process, stored outdoors, loaded or transferred and any other pertinent information for potential sources of wastewater or stormwater discharges.

FLOWS, TYPE, AND FREQUENCY

2.0 Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in item B. Construct a water balance on the line drawing by showing average and maximum flows between intakes, operations, treatment units, evaporation, public sewers, and outfalls. If a water balance cannot by determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

2.1 For each outfall (1) below, provide: (2) a description of all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, stormwater runoff, and any other process or non-process wastewater, (3) the average flow and maximum flow (put max in parentheses) contributed by each operation and the sum of those operations, (4) the treatment received by the wastewater, and (5) the treatment type code. Continue on additional sheets if necessary.

1. OUTFALL NO.	2. OPERATION(S) CONTRIBUTING FLOW; INCLUDE ALL PROCESSES AND SUB PROCESSES AT EACH OUTFALL	3. AVERAGE FLOW AND (MAXIMUM FLOW), INCLUDE UNITS.	4. TREATMENT DESCRIPTION	5. TREATMENT CODES FROM TABLE A
	Attach addit	ional pages if necessa	ary.	

Except fo	r stormwater runoff, le	aks, or spills, are	any of the	discharge	s described i	in items 2.0	0 or 2.1 interm	nittent or sea	sonal?
	☐ Yes (complete the	following table)		No (go to s	ection 2.3)				
			3 FRF	OUENCY	4. FLOW				
1. OUTEAU	2 OPERATION(S) CON		J. TKL		A. FLOW RA	ATE (in mgd)	B. TOTAL (specify w	volume vith units)	C. DURATION
NUMBER	2. 072/00/00/00/00/00/00/00/00/00/00/00/00/00	TRIBUTING FLOW	A. DAYS PER WEEK (specify average)	B. MONTHS PER YEAR (specify average)	1. MAXIMUM DAILY	2. LONG TERM AVERAGE	4. LONG TERM DAILY	3. MAXIMUM AVERAGE	(in days)
2.3 PR0									
	an effluent limitation	auideline (ELG) r	vomulaate	d by EPA u	nder section	304 of the	n Clean Water	· Act apply to	VOUR
facility?	Indicate the part and s	subparts applicab	le.			1 304 01 116			your
	Yes 40 CFR	Subpart(:	s)	_ □	No (go to se	ection 2.5)			
B. Are the below.	he limitations in the ef	fluent guideline(s) expresse	d in terms o	of productior	n (or other	measure of op	peration)? De	escribe in C
	Yes (complete C)	□ No	(ao to sec	tion 2 5)					
			(go to 000						
expresse	ed in the terms and un	its used in the ap	plicable ef	fluent guide	eline and ind	licate the a	ffected outfall	s.	tion,
A. OUTFAL	L(S) B. QUANTITY PER DAY	C. UNITS OF MEASURE	E		D. OPERATION	N, PRODUCT, N	MATERIAL, ETC. (specify)	
2.4 IMPR	 OVEMENTS								
A. A u a o	re you required by an pgrading, or operatior ffect the discharges d r enforcement orders,	y federal, state, o o of wastewater tr escribed in this a enforcement cor	or local auth eatment ea pplication? npliance so	nority to me quipment or This inclue chedule lett	et any imple r practices o des, but is n ers, stipulati	ementation r any other ot limited to ons, court	schedule for t environmenta o, permit conc orders, and g	the construc al programs litions, admi rant or loan o	tion, which may nistrative conditions.
🗌 Ye	s (complete the follow	/ing table)] No <i>(go to</i> .	2.6)				
1. IDENTI A	FICATION OF CONDITION, GREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF	DESCRIPTION OI	F PROJECT		4. FINAL CO	
								A. REQUIRED	B. PROJECTED
B. C p p	optional: provide below rojects which may affe lanned schedules for	 or attach additio set discharges. In construction. This 	onal sheets dicate whe s may inclu	describing ether each p de propose	water pollut program is u ed bmp proje	tion control nderway o ects for stol	programs or r planned, and rmwater.	other enviro d indicate ac	nmental tual or

2.5 SLUDGE MANAGEMENT Describe the removal of any industrial or domestic biosolids or sludges generated at your facility. Include names and contact information for any haulers used. Note the frequency, volume, and methods (incineration, landfilling, composting, etc) used. See Form A for additional forms which may need to be completed.										
DATA COLLECTION AND REPORTING REQUIREMENTS FOR APPLICANTS										
3.0 EFFLUENT (AND INTAKE) CHARACTERISTICS (SEE INSTRUCTIONS)										
A. & B. See instructions before continuing – complete one Table 1 for each outfall (and intake) – annotate the outfall (intake) number or designation in the space provided. The facility is not required to complete intake data unless required by the department or rule.										
C. Use the space below to list any pollutants listed in the instructions section 3.0 C. Table B which you know or have reason to believe is discharged or may be discharged from any outfall not listed in parts 3.0 A or B on Table 1. For every pollutant listed, briefly describe the reasons you believe it to be present and report any analytical data in your possession.										
1. POLLUTANT	2. SOUF	RCE	3. OUTFALL(S)	4. ANALYTICAL RESULTS (INCLUDE UNITS)						
3.1 Whole Effluent Toxic	ty Testing									
A. To your knowledge, h	ave any Whole Effluent Tox	kicity (WET) tests be	een performed	on the facility discharges (or on receiving						
waters in relation to your \Box Yes (no to 3.1 B)	discharge) within the last the \Box No (no to 3.2)	iree years?								
3.1 B Disclose wet testing cond any results of toxicity ide conclusions of the test(s)	ditions, including test duration ntification evaluations (TIE) including any pollutants ide	on (chronic or acute or toxicity reductior entified as causing t), the organisn a evaluations (oxicity and ste	ns tested, and the testing results. Provide TRE) if applicable. Please indicate the ps the facility is taking to remedy the						
toxicity.										
Were any of the analy	ses reported herein above	or on Table 1 perfo	ormed by a cor	ntract laboratory or consulting firm?						
☐ Yes (list the name,	address, telephone numbe	r, and pollutants an	alyzed by each	haboratory or firm.) \Box No (go to 4.0)						
A. LAB NAME	B. ADDRESS	C. TELEPHONE (area code and numb	er)	D. POLLUTANTS ANALYZED (list or group)						

4.0 STORMWATER

4.1

Do you have industrial stormwater discharges from the site? If so, attach a site map outlining drainage areas served by each outfall. Indicate the following attributes within each drainage area: pavement or other impervious surfaces; buildings; outdoor storage areas; material loading and unloading areas; outdoor industrial activities; structural stormwater control measures; hazardous waste treatment, storage, and disposal units; and wells or springs in the area.

OUTFALL NUMBER	TOTAL AREA DRAINED (PROVIDE UNITS)	TYPES OF SURFACES (VEGETATED, STONE , PAVED, ETC)	BEST MANAGEMENT PRACTICES EMPLOYED; INCLUDE STRUCTURAL BMPS AND TREATMENT DESIGN FLOW FOR BMPS DESCRIBE HOW FLOW IS MEASURED
4.2 STO Provide	RMWATER FLO	WS ling with the flows, and how the flows we	ere estimated.

SIGNATORY REQUIREMENTS

5.0 CERTIFICATION

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

NAME AND OFFICIAL TITLE (TYPE OR PRINT)	TELEPHONE NUMBER WITH AREA CODE
Fred J. Thome - Flant Manager	(502) 773-4386
SIGNATURE (SEE INSTRUCTIONS)	DATE SIGNED
Find I Thomas	10/26/21

FORD MOTOR COMPANY – KANSAS CITY ASSEMBLY PLANT NPDES MODIFICATION APPLICATION

	UTM COORDINATES RECEIVING OPERATION(S) CONTRIBUTING FL						V TREATMENT		
OUTFALL NUMBER	LEGAL DESCRIPTION	EASTING (X)	NORTHING (Y)	WATER	OPERATION	AVERAGE FLOW (INCLUDE UNITS) (MAXIMUM FLOW)	DESCRIPTION	LIST CODES FROM TABLE A	
001	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372552	4340614	BIG SHOAL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
002	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372340	4340772	BIG SHOAL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
003	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372279	4340019	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT NONE		NOT APPLICABLE	
004	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372631	4340088	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
005	SW 1/4, NW 1/4, SEC 26, T51N, R32W, CLAY COUNTY	372935	4340297	BIG SHOAL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
006	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372549	4340022	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
007	SW 1/4, NW 1/4, SEC 26, T51N, R32W, CLAY COUNTY	372928	4340391	BIG SHOAL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
008	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372644	4340533	BIG SHOAL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
009‡	Not identified in current permit.				EXEMPT FROM ST PARKING LOT SE	ORM WATER PERMI	REGULATIONS	– EMPLOYEE ACTIVITIES	
010‡	Not identified in current permit								

		UTM COO	RDINATES	RECEIVING	OPERATION(S) CO	NTRIBUTING FLOW	TREATMENT		
OUTFALL NUMBER	LEGAL DESCRIPTION	EASTING (X)	NORTHING (Y)	WATER	OPERATION	AVERAGE FLOW (INCLUDE UNITS) (MAXIMUM FLOW)	DESCRIPTION	LIST CODES FROM TABLE A	
011	NW 1/4, SW 1/4, SEC 26, T51N, R32W, CLAY COUNTY	372726	4340182	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
012	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372138	4340103	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
013	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372395	4339927	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	PENDS ON IRM EVENT NONE		
016	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	371967	4340208	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
017*	Eliminated NCCW Discharges								
018*	Eliminated NCCW Discharges								
019‡	Eliminated No exposure								
020	SE 1/4, NW 1/4, SEC 27, T51N, R32W, CLAY COUNTY	371832	4340431	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	
021	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372554	4339989	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	DEPENDS ON STORM EVENT NONE		
022	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	371967	4340211	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT NONE		NOT APPLICABLE	
023	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	371970	4340205	THORTON MILL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE	

		UTM COO	RDINATES	RECEIVING	OPERATION(S) CO	NTRIBUTING FLOW	TREATMENT			
OUTFALL NUMBER	LEGAL DESCRIPTION	EASTING (X)	NORTHING (Y)	WATER	OPERATION	AVERAGE FLOW (INCLUDE UNITS) (MAXIMUM FLOW)	DESCRIPTION	LIST CODES FROM TABLE A		
024‡	Not identified in current permit			THORTON MILL CREEK	EXEMPT FROM SIGNIFICANT IN POTENTIAL IMPAC	EXEMPT FROM STORM WATER PERMIT REGULATIONS – NO SIGNIFICANT INDUSTRIAL ACTIVITY AND POSE A NEGLIGIBLE POTENTIAL IMPACT ON WATERS OF THE STATE (10 CSR 20-6 200 2010)				
025	NW 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372892.9	4340025	THORTON MILL CREEK	STORM WATER DEPENDS ON RUNOFF STORM EVENT		NONE	NOT APPLICABLE		
026‡	SE 1/4, SE 1/4, SEC 27, T51N, R32W, CLAY COUNTY	372624.6	4339653	THORTON MILL CREEK	EXEMPT FROM STORM WATER PERMIT REGULATIONS – NO SIGNIFICANT INDUSTRIAL ACTIVITY AND POSE A NEGLIGIBLE POTENTIAL IMPACT ON WATERS OF THE STATE (10 CSR 20-6.200.1)					
027	NE 1/4, NW 1/4, SEC 26, T51N, R32W, CLAY COUNTY	373337.4	4340637	SHOAL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE		
028	SE 1/4, NW 1/4, SEC 26, T51N, R32W, CLAY COUNTY	373348.9	4340305	SHOAL CREEK	STORM WATER RUNOFF	DEPENDS ON STORM EVENT	NONE	NOT APPLICABLE		





Stamping Plant location



TETRA TECH Tt

Project No: 103IP7376.00

Drawn By: Nick Wiederholt

Source: ESRI, ArcGIS Online Maps, World Imagery, 2013

Main Plant location

ς,



Ford - Kansas City Assembly Plant Schematic Wastewater Flow Diagram - Industrial and Sanitary Waste

Oct-20

EFFLUENT (AND INTA	KE) CHAF	RACTER	ISTICS	THIS OUTFA	ALL IS:						OUTFALL NO.	
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.	
					2. VALUE	S					3. UNITS (specify if blank)	
1. POLLUTANT		A. MAXIMUM DAILY VALUE			B. MAXIMUM 30 DAY VALUES			C. LONG TERM AVER	AGE VALUES			
	(1) CONCENTRATION		(2) MASS	(1) CONCENT	(1) CONCENTRATION (2)		(1) CONCENTRATION		(2) MASS	ANALYSES	TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)												
B. Chemical Oxygen Demand (COD)												
C. Total Organic Carbon (TOC)												
D. Total Suspended Solids (TSS)												
E. Ammonia as N												
F. Flow	VALUE			VALUE	ALUE VALUE					MILLIONS OF GALLONS PER DAY (MGD)		
G. Temperature (winter)	VALUE	ALUE					VALUE				이	F
H. Temperature (summer)	VALUE	ALUE					VALUE				٥	F
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal
	2. MA	RK "X"			3. VALUES							
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants									
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM				
B. Bromide (24959-67-9)												
C. Chloride (16887-00-6)												
D. Chlorine, Total Residual												
E. Color												
F. Conductivity												
F. Cyanide, Amenable to Chlorination												

	2. MARK "X"		3. VALUES							4. UNITS	
AND CAS NUMBER		BELIEVED RESENT BELIEVED ABSENT	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT		CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	/				•		•	•	•	•	
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	OUTFALL NO.											
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.	
					2. VALUE	S					3. UNITS (sp	ecify if blank)
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES			
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)												
B. Chemical Oxygen Demand (COD)												
C. Total Organic Carbon (TOC)												
D. Total Suspended Solids (TSS)												
E. Ammonia as N												
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY
G. Temperature (winter)	VALUE			VALUE			VALUE				이	F
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal
	2. MA	RK "X"				3. VALUES					4. UI	NITS
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants									
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM				
B. Bromide (24959-67-9)												
C. Chloride (16887-00-6)												
D. Chlorine, Total Residual												
E. Color												
F. Conductivity												
F. Cyanide, Amenable to Chlorination												

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	/				•		•	•	•	•	
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	OUTFALL NO.											
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.	
					2. VALUE	S					3. UNITS (sp	ecify if blank)
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES			
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)												
B. Chemical Oxygen Demand (COD)												
C. Total Organic Carbon (TOC)												
D. Total Suspended Solids (TSS)												
E. Ammonia as N												
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY
G. Temperature (winter)	VALUE			VALUE			VALUE				이	F
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal
	2. MA	RK "X"				3. VALUES					4. UI	NITS
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants									
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM				
B. Bromide (24959-67-9)												
C. Chloride (16887-00-6)												
D. Chlorine, Total Residual												
E. Color												
F. Conductivity												
F. Cyanide, Amenable to Chlorination												

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	/				•		•	•	•	•	
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	OUTFALL NO.											
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.	
					2. VALUE	S					3. UNITS (sp	ecify if blank)
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES			
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)												
B. Chemical Oxygen Demand (COD)												
C. Total Organic Carbon (TOC)												
D. Total Suspended Solids (TSS)												
E. Ammonia as N												
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY
G. Temperature (winter)	VALUE			VALUE			VALUE				이	F
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal
	2. MA	RK "X"				3. VALUES					4. UI	NITS
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants									
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM				
B. Bromide (24959-67-9)												
C. Chloride (16887-00-6)												
D. Chlorine, Total Residual												
E. Color												
F. Conductivity												
F. Cyanide, Amenable to Chlorination												

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	/				•		•	•	•	•	
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	OUTFALL NO.											
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.	
					2. VALUE	S					3. UNITS (sp	ecify if blank)
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES			
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)												
B. Chemical Oxygen Demand (COD)												
C. Total Organic Carbon (TOC)												
D. Total Suspended Solids (TSS)												
E. Ammonia as N												
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY
G. Temperature (winter)	VALUE			VALUE			VALUE				이	F
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal
	2. MA	RK "X"				3. VALUES					4. UI	NITS
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants									
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM				
B. Bromide (24959-67-9)												
C. Chloride (16887-00-6)												
D. Chlorine, Total Residual												
E. Color												
F. Conductivity												
F. Cyanide, Amenable to Chlorination												

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MAI	ϚΚ "Χ "				3. VALUES				4. UNITS	
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	y				•		•	•	•	•	
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:												OUTFALL NO.	
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.		
					2. VALUE	S					3. UNITS (sp	ecify if blank)	
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES				
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS	
A. Biochemical Oxygen Demand, 5-day (BOD₅)													
B. Chemical Oxygen Demand (COD)													
C. Total Organic Carbon (TOC)													
D. Total Suspended Solids (TSS)													
E. Ammonia as N													
F. Flow	VALUE VALUE VALUE VALUE MILLIONS OF GALLONS PER DAY (MGD)												
G. Temperature (winter)	VALUE	VALUE								이	F		
H. Temperature (summer)	VALUE	UE Y					VALUE				٥	F	
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)	
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal	
	2. MA	RK "X"				3. VALUES					4. UI	NITS	
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-		
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS	
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants										
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM					
B. Bromide (24959-67-9)													
C. Chloride (16887-00-6)													
D. Chlorine, Total Residual													
E. Color													
F. Conductivity													
F. Cyanide, Amenable to Chlorination													

	2. MA	RK "X"	3. VALUES								IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals				•	•						
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MAI	ϚΚ "Χ "				3. VALUES				4. UNITS	
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	y				•		•	•	•	•	
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:												OUTFALL NO.	
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.		
					2. VALUE	S					3. UNITS (sp	ecify if blank)	
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES				
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS	
A. Biochemical Oxygen Demand, 5-day (BOD₅)													
B. Chemical Oxygen Demand (COD)													
C. Total Organic Carbon (TOC)													
D. Total Suspended Solids (TSS)													
E. Ammonia as N													
F. Flow	VALUE VALUE VALUE VALUE MILLIONS OF GALLONS PER DAY (MGD)												
G. Temperature (winter)	VALUE	VALUE								이	F		
H. Temperature (summer)	VALUE	UE Y					VALUE				٥	F	
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)	
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal	
	2. MA	RK "X"				3. VALUES					4. UI	NITS	
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-		
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS	
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants										
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM					
B. Bromide (24959-67-9)													
C. Chloride (16887-00-6)													
D. Chlorine, Total Residual													
E. Color													
F. Conductivity													
F. Cyanide, Amenable to Chlorination													

	2. MA	RK "X"	3. VALUES								IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals				•	•						
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MAI	ϚΚ "Χ "				3. VALUES				4. UNITS	
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity	y				•		•	•	•	•	
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:												OUTFALL NO.	
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.		
					2. VALUE	S					3. UNITS (sp	ecify if blank)	
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES				
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS	
A. Biochemical Oxygen Demand, 5-day (BOD₅)													
B. Chemical Oxygen Demand (COD)													
C. Total Organic Carbon (TOC)													
D. Total Suspended Solids (TSS)													
E. Ammonia as N													
F. Flow	VALUE VALUE VALUE VALUE MILLIONS OF GALLONS PER DAY (MGD)												
G. Temperature (winter)	VALUE	VALUE								이	F		
H. Temperature (summer)	VALUE	UE Y					VALUE				٥	F	
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)	
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal	
	2. MA	RK "X"				3. VALUES					4. UI	NITS	
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-		
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS	
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants										
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM					
B. Bromide (24959-67-9)													
C. Chloride (16887-00-6)													
D. Chlorine, Total Residual													
E. Color													
F. Conductivity													
F. Cyanide, Amenable to Chlorination													

	2. MA	RK "X"	3. VALUES								IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals				•	•						
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

	2. MAI	ϚΚ "Χ "				3. VALUES				4. UNITS				
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-				
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS			
Subpart 2 – Metals (Con	tinued)													
11M. Copper, Total Recoverable (7440-50-8)														
12M. Iron, Total Recoverable (7439-89-6)														
13M. Lead, Total Recoverable (7439-92-1)														
14M. Magnesium, Total Recoverable (7439-95-4)														
15M. Manganese, Total Recoverable (7439-96-5)														
16M. Mercury, Total Recoverable (7439-97-6)														
17M. Methylmercury (22967926)														
18M. Molybdenum, Total Recoverable (7439-98-7)														
19M. Nickel, Total Recoverable (7440-02-0)														
20M. Selenium, Total Recoverable (7782-49-2)														
21M. Silver, Total Recoverable (7440-22-4)														
22M. Thallium, Total Recoverable (7440-28-0)														
23M. Tin, Total Recoverable (7440-31-5)														
24M. Titanium, Total Recoverable (7440-32-6)														
25M. Zinc, Total Recoverable (7440-66-6)														
Subpart 3 – Radioactivity	y				•		•	•	•	•				
1R. Alpha Total														
2R. Beta Total														
3R. Radium Total														
4R. Radium 226 plus 228 Total														
EFFLUENT (AND INTA	FLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:													
--	--	---------------------------------	--	---	---	--------------------------	---------------------	--	--	-----------------------------	-----------------------------------	--------------------	--	--
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.			
					2. VALUE	S					3. UNITS (sp	ecify if blank)		
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES					
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS		
A. Biochemical Oxygen Demand, 5-day (BOD ₅)														
B. Chemical Oxygen Demand (COD)														
C. Total Organic Carbon (TOC)														
D. Total Suspended Solids (TSS)														
E. Ammonia as N														
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY		
G. Temperature (winter)	VALUE	ALUE VALUE VALUE									이	F		
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F		
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)		
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal		
	2. MA	RK "X"				3. VALUES					4. UI	NITS		
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-			
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS		
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants											
A. Alkalinity (CaCO ₃)			Мілімим		MINIMUM		I	MINIMUM						
B. Bromide (24959-67-9)														
C. Chloride (16887-00-6)														
D. Chlorine, Total Residual														
E. Color														
F. Conductivity														
F. Cyanide, Amenable to Chlorination														

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

1. POLLUTANT	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity									•		
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	FLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:													
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.			
					2. VALUE	S					3. UNITS (sp	ecify if blank)		
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES					
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS		
A. Biochemical Oxygen Demand, 5-day (BOD ₅)														
B. Chemical Oxygen Demand (COD)														
C. Total Organic Carbon (TOC)														
D. Total Suspended Solids (TSS)														
E. Ammonia as N														
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY		
G. Temperature (winter)	VALUE	ALUE VALUE VALUE									이	F		
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F		
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)		
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal		
	2. MA	RK "X"				3. VALUES					4. UI	NITS		
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-			
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS		
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants											
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM						
B. Bromide (24959-67-9)														
C. Chloride (16887-00-6)														
D. Chlorine, Total Residual														
E. Color														
F. Conductivity														
F. Cyanide, Amenable to Chlorination														

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

1. POLLUTANT	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity									•		
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	FLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:													
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.			
					2. VALUE	S					3. UNITS (sp	ecify if blank)		
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES					
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS		
A. Biochemical Oxygen Demand, 5-day (BOD ₅)														
B. Chemical Oxygen Demand (COD)														
C. Total Organic Carbon (TOC)														
D. Total Suspended Solids (TSS)														
E. Ammonia as N														
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY		
G. Temperature (winter)	VALUE	ALUE VALUE VALUE									이	F		
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F		
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)		
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal		
	2. MA	RK "X"				3. VALUES					4. UI	NITS		
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-			
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS		
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants											
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM						
B. Bromide (24959-67-9)														
C. Chloride (16887-00-6)														
D. Chlorine, Total Residual														
E. Color														
F. Conductivity														
F. Cyanide, Amenable to Chlorination														

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

1. POLLUTANT	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity									•		
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	FLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:													
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.			
					2. VALUE	S					3. UNITS (sp	ecify if blank)		
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES					
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS		
A. Biochemical Oxygen Demand, 5-day (BOD ₅)														
B. Chemical Oxygen Demand (COD)														
C. Total Organic Carbon (TOC)														
D. Total Suspended Solids (TSS)														
E. Ammonia as N														
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY		
G. Temperature (winter)	VALUE	ALUE VALUE VALUE									이	F		
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F		
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)		
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Comp	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal		
	2. MA	RK "X"				3. VALUES					4. UI	NITS		
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-			
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS		
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants											
A. Alkalinity (CaCO₃)			Мілімим		MINIMUM		I	MINIMUM						
B. Bromide (24959-67-9)														
C. Chloride (16887-00-6)														
D. Chlorine, Total Residual														
E. Color														
F. Conductivity														
F. Cyanide, Amenable to Chlorination														

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

1. POLLUTANT	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity									•		
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	FLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:													
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.			
					2. VALUE	S					3. UNITS (sp	ecify if blank)		
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES					
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS		
A. Biochemical Oxygen Demand, 5-day (BOD ₅)														
B. Chemical Oxygen Demand (COD)														
C. Total Organic Carbon (TOC)														
D. Total Suspended Solids (TSS)														
E. Ammonia as N														
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY		
G. Temperature (winter)	VALUE	ALUE VALUE VALUE									이	F		
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F		
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)		
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal		
	2. MA	RK "X"				3. VALUES					4. UI	NITS		
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-			
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS		
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants											
A. Alkalinity (CaCO ₃)			Мілімим		MINIMUM		I	MINIMUM						
B. Bromide (24959-67-9)														
C. Chloride (16887-00-6)														
D. Chlorine, Total Residual														
E. Color														
F. Conductivity														
F. Cyanide, Amenable to Chlorination														

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

1. POLLUTANT	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity									•		
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	FLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:													
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.			
					2. VALUE	S					3. UNITS (sp	ecify if blank)		
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES					
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS		
A. Biochemical Oxygen Demand, 5-day (BOD ₅)														
B. Chemical Oxygen Demand (COD)														
C. Total Organic Carbon (TOC)														
D. Total Suspended Solids (TSS)														
E. Ammonia as N														
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY		
G. Temperature (winter)	VALUE	ALUE VALUE VALUE									이	F		
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F		
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)		
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal		
	2. MA	RK "X"				3. VALUES					4. UI	NITS		
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-			
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS		
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants											
A. Alkalinity (CaCO ₃)			Мілімим		MINIMUM		I	MINIMUM						
B. Bromide (24959-67-9)														
C. Chloride (16887-00-6)														
D. Chlorine, Total Residual														
E. Color														
F. Conductivity														
F. Cyanide, Amenable to Chlorination														

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

1. POLLUTANT	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity									•		
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	FLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:													
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.			
					2. VALUE	S					3. UNITS (sp	ecify if blank)		
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES					
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS		
A. Biochemical Oxygen Demand, 5-day (BOD ₅)														
B. Chemical Oxygen Demand (COD)														
C. Total Organic Carbon (TOC)														
D. Total Suspended Solids (TSS)														
E. Ammonia as N														
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY		
G. Temperature (winter)	VALUE	ALUE VALUE VALUE									이	F		
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F		
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)		
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal		
	2. MA	RK "X"				3. VALUES					4. UI	NITS		
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-			
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS		
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants											
A. Alkalinity (CaCO ₃)			Мілімим		MINIMUM		I	MINIMUM						
B. Bromide (24959-67-9)														
C. Chloride (16887-00-6)														
D. Chlorine, Total Residual														
E. Color														
F. Conductivity														
F. Cyanide, Amenable to Chlorination														

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

1. POLLUTANT	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity									•		
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											

EFFLUENT (AND INTA	FLUENT (AND INTAKE) CHARACTERISTICS THIS OUTFALL IS:													
3.0 PART A – You must	provide t	he results	s of at least one a	nalysis for every	pollutant in Part	A. Complete	e one t	able for each ou	tfall or proposed	outfall. See	e instructions.			
					2. VALUE	S					3. UNITS (sp	ecify if blank)		
1. POLLUTANT		A. MAXIMU	IM DAILY VALUE	В. І	MAXIMUM 30 DAY VALU	ES		C. LONG TERM AVER	AGE VALUES					
	(1) CONC	ENTRATION	(2) MASS	(1) CONCENT	RATION (2)	MASS	(1) CC	ONCENTRATION	(2) MASS	ANALYSES	A. CONCEN- TRATION	B. MASS		
A. Biochemical Oxygen Demand, 5-day (BOD ₅)														
B. Chemical Oxygen Demand (COD)														
C. Total Organic Carbon (TOC)														
D. Total Suspended Solids (TSS)														
E. Ammonia as N														
F. Flow	VALUE			VALUE			VALUE				MILLIONS OF GA (MC	LLONS PER DAY		
G. Temperature (winter)	VALUE	ALUE VALUE VALUE									이	F		
H. Temperature (summer)	VALUE			VALUE			VALUE				٥	F		
I. pH	MINIMUM			MAXIMUM			AVERAG	E			STANDARD	UNITS (SU)		
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	n column tant, you re in Part	2A for ea must pro 3.0 C.	ach pollutant you vide the results fo	know or have read ar at least one an	ason to believe is alysis for the poll	present. M utant. Com	ark "X" plete oi	' in column 2B fc ne table for each	or each pollutant n outfall (intake).	you believe Provide resi	to be absent. ults for additic	lf you mark mal		
	2. MA	RK "X"				3. VALUES					4. UI	NITS		
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM 3	30 DAY VALUES	;	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-			
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS		CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS		
Subpart 1 – Conventiona	al and No	n-Convei	ntional Pollutants											
A. Alkalinity (CaCO ₃)			Мілімим		MINIMUM		I	MINIMUM						
B. Bromide (24959-67-9)														
C. Chloride (16887-00-6)														
D. Chlorine, Total Residual														
E. Color														
F. Conductivity														
F. Cyanide, Amenable to Chlorination														

	2. MA	RK "X"				3. VALUES				4. UN	IITS
AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE		A CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventiona	al and No	n-Conver	ntional Pollutants	(Continued)							
G. E. coli											
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)											
J. Kjeldahl, Total (as N)											
K. Nitrogen, Total Organic (as N)											
L. Oil and Grease											
M. Phenols, Total											
N. Phosphorus <i>(as P),</i> Total (7723-14-0)											
O. Sulfate <i>(as</i> SO ⁴) (14808-79-8)											
P. Sulfide <i>(as S)</i>											
Q. Sulfite (as SO ³) (14265-45-3)											
R. Surfactants											
S. Trihalomethanes, Total											
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)											
2M. Antimony, Total Recoverable (7440-36-9)											
3M. Arsenic, Total Recoverable (7440-38-2)											
4M. Barium, Total Recoverable (7440-39-3)											
5M. Beryllium, Total Recoverable (7440-41-7)											
6M. Boron, Total Recoverable (7440-42-8)											
7M. Cadmium, Total Recoverable (7440-43-9)											
8M. Chromium III Total Recoverable (16065-83-1)											
9M. Chromium VI, Dissolved (18540-29-9)											
10M. Cobalt, Total Recoverable (7440-48-4)											

1. POLLUTANT	2. MAI	ϚΚ "Χ "				3. VALUES				4. UN	IITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM A	VERAGE VALUE	D. NO. OF	A. CONCEN-	
(it available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)											
12M. Iron, Total Recoverable (7439-89-6)											
13M. Lead, Total Recoverable (7439-92-1)											
14M. Magnesium, Total Recoverable (7439-95-4)											
15M. Manganese, Total Recoverable (7439-96-5)											
16M. Mercury, Total Recoverable (7439-97-6)											
17M. Methylmercury (22967926)											
18M. Molybdenum, Total Recoverable (7439-98-7)											
19M. Nickel, Total Recoverable (7440-02-0)											
20M. Selenium, Total Recoverable (7782-49-2)											
21M. Silver, Total Recoverable (7440-22-4)											
22M. Thallium, Total Recoverable (7440-28-0)											
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)											
Subpart 3 – Radioactivity									•		
1R. Alpha Total											
2R. Beta Total											
3R. Radium Total											
4R. Radium 226 plus 228 Total											