

**AUTHORIZATION TO DISCHARGE UNDER  
THE OKLAHOMA POLLUTANT DISCHARGE ELIMINATION SYSTEM**

**PERMIT NUMBER: OK0036439  
ID NUMBER: I-72001800**

In compliance with the Oklahoma Pollutant Discharge Elimination System (OPDES) Act, 27A O.S. § 2-6-201 *et seq.*, Oklahoma Uniform Environmental Permitting Act, 27A O.S. § 2-14-101 *et seq.*, and the rules of the Oklahoma Department of Environmental Quality promulgated thereunder,

Chemtrade Refinery Services, Inc.  
5101 West 21<sup>st</sup> St.  
Tulsa, OK 74107

is authorized to discharge wastewater from their facility, located at:

NE¼, SW¼, SE¼, Section 8, Township 19N, Range 12EIM  
Tulsa County, Oklahoma  
or at 5201 West 21<sup>st</sup> St., Tulsa, OK 74107

to receiving waters: Berryhill Creek (WBID# OK120420010120\_00) and Arkansas River (WBID# OK120420010010\_00) in stream segment 120420 of the middle Arkansas River Basin.

from Outfall 001 located at:

Latitude 36.135990° N, Longitude 96.054998° W (GPS: NAD83)  
NW¼, SW¼, SE¼, Section 8, Township 19N, Range 12EIM,  
Tulsa County, Oklahoma

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, and III, hereof.

The above-referenced facility is authorized to retain wastewater in four (4) flow-through surface impoundments (F01 – F04) as described in the Appendix. Surface impoundments shall be maintained in accordance with Parts I, II, and IV hereof.

Issuance of this permit in no way or in any respect affects the permittee's civil or criminal responsibility regarding disposal of wastewater, except with respect to the permittee's legal responsibility under the OPDES Act and Department Rules.

This permit replaces and supersedes the previous permit issued on December 31, 2020.

The issuance date of this permit is Month Date Year.

This permit shall become effective Month Date Year.

This permit and authorization to discharge shall expire at midnight Month Date Year.

For the Oklahoma Department of Environmental Quality:

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Carol Paden, P.E., Manager  
Industrial Permits Section  
Water Quality Division

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George Russell IV, Director  
Water Quality Division

## PART I EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

### SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of the permit and lasting through the expiration date, the permittee is authorized to discharge from Outfall 001.

The discharge from Outfall 001 consists of wastewater from loading pad wash down, cooling tower blowdown, water softener blowdown, boiler blowdown, and stormwater runoff from the process area. The process wastewater is treated in four (4) flow-through surface impoundments F01 - F04, and then it is discharged through Outfall 001. Such discharge shall be limited and monitored by the permittee as specified below:

#### Mass and Concentration Limitations - Outfall 001

| PARAMETERS   | DISCHARGE LIMITATIONS                                       |                  |   |                   |
|--|---|------------------|---|-------------------|
|  | MASS LOADING LIMITS<br>(lbs/day unless otherwise specified) |                  | CONCENTRATION LIMITS<br>(mg/L unless otherwise specified) |                   |
|  | MONTHLY<br>AVERAGE  | DAILY<br>MAXIMUM | MONTHLY<br>AVERAGE  | DAILY<br>MAXIMUM  |
| Flow<br>STORET: 50050  | Report (GPD)  | Report (GPD)     | N/A   | N/A               |
| Biochemical Oxygen Demand (BOD <sub>5</sub> )<br>STORET: 00310 | ---   | ---              | Report  | Report            |
| Total Suspended Solids (TSS)<br>STORET: 00530                  | ---   | 39.31            | Report  | 45                |
| Sulfates<br>STORET: 00945                                      | 643   | 884              | 736   | 1012              |
| Total Residual Oxidant (TRO)<br>STORET: 34044                  | ---   | ---              | ---   | ND <sup>(1)</sup> |
| pH<br>STORET: 00400  | ---   | ---              | Between 6.0 – 9.0 (S.U.)                                  |                   |

<sup>(1)</sup> ND is Not Detectable (defined as <0.10 mg/L instantaneous maximum) as measured by approved EPA 40 C.F.R. 136 methods for total residual chlorine. See Section V.D.1.d of the fact sheet for further details. The <0.1 mg/L water quality based limit for total residual oxidants will satisfy the intent of the technology based FAC and TRC effluent limitations in 40 C.F.R. § 423.12, 40 C.F.R. § 423.13, and 40 C.F.R. § 423.15.

NOTE: See Parts II and III for Additional Requirements.

There shall be no discharge of a visible sheen of oil or globules of oil or grease on or in the water. Oil and grease shall not be present in quantities that adhere to stream banks and coat bottoms of water courses.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

The discharge shall not contain chemical, physical, or biological substances in concentrations that are irritating to skin or sense organs or are toxic or cause illness upon ingestion by human beings.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location:

**Outfall 001:** Samples shall be taken at the sampling station prior to discharging to Berryhill Creek in the NW¼, SW¼, SE¼, Section 8, Township 19N, Range 12EIM, Tulsa County, Oklahoma, or at Latitude 36.136038° N, Longitude 96.054421° W (GPS: NAD83).

**Monitoring Requirements and Sample Types - Outfall 001**

| PARAMETERS                                    | MEASUREMENT FREQUENCY <sup>(1)</sup> | SAMPLE TYPE |
|---|--------------------------------------|-------------|
| Flow  | Continuous                           | Record      |
| Biochemical Oxygen Demand (BOD <sub>5</sub> ) | 1/Month                              | 24hr-Comp.  |
| Total Suspended Solids (TSS)                  | 1/Week                               | 24hr-Comp.  |
| Sulfates                                      | 1/Week                               | 24hr-Comp.  |
| Total Residual Oxidant (TRO)                  | 1/Month                              | Grab        |
| pH  | Continuous                           | Record      |

<sup>(1)</sup> When discharging.

**SECTION B. SCHEDULE OF COMPLIANCE**

The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule: None

**SECTION C. REPORTING OF MONITORING RESULTS**

Monitoring results shall be reported in accordance with the provisions of Part III, Section E(4) of the permit. Monitoring results obtained during the previous month shall be summarized and electronically reported on an electronic Discharge Monitoring Report (eDMR) form due to the Oklahoma Department of Environmental Quality, Water Quality Division, Wastewater Compliance Tracking Section no later than the 15<sup>th</sup> day of the month following the completed monthly test. If no discharge occurs during the reporting period, an eDMR form stating "No Discharge" shall be electronically submitted according to the above schedule. Instructions on how to register as a "Preparer" or "Signatory" for eDMRs, as well as how to prepare and submit eDMRs, can be found on DEQ's website at <https://oklahoma.gov/deq/divisions/water-quality/wastewater-stormwater/electronic-reporting.html>. Assistance is also available by contacting DEQ at (405) 702-8100 or [deqreporting@deq.ok.gov](mailto:deqreporting@deq.ok.gov).

The first report is due on \_\_\_\_\_.

## **PART II**

### **OTHER PERMIT REQUIREMENTS**

#### **A. REGULATORY NOTICE**

The permittee is hereby given notice that this Permit is in all respects subject to compliance with and actions under any and all applicable and relevant terms, conditions, provisions and requirements and any and all amendments of the laws of the State of Oklahoma, the rules of the Oklahoma Department of Environmental Quality, and Oklahoma's Water Quality Standards. The absence of any express reference within this Permit of any particular statutory requirement, rule(s), regulation(s), or standard(s) shall in no respect be deemed or construed to exempt or preclude the application of such requirement, rule(s), regulation(s), or standard(s) to this Permit or the permittee. By the Director's approval, grant and issuance of this Permit, permittee acknowledges receipt of true, correct, and current copies of Oklahoma's Water Quality Standards and the rules of the Oklahoma Department of Environmental Quality.

#### **B. REOPENER CLAUSE**

This Permit may be reopened for modification or revocation and reissuance to require additional monitoring and/or effluent limitations where actual or potential exceedances of state water quality criteria are determined to be the result of the permittee's discharge to the receiving water(s), or a Total Maximum Daily Load is established for the receiving stream(s), or when required as technology advances. Modification or revocation and reissuance of the Permit shall follow regulations listed at 40 C.F.R. § 124.5.

#### **C. LABORATORY ACCREDITATION**

All laboratory analyses for the parameters specified in this permit must be performed by a laboratory accredited by the Oklahoma Department of Environmental Quality for those parameters.

#### **D. ANALYTICAL REQUIREMENTS**

Unless otherwise specified in this Permit, effluent and/or upstream monitoring shall be conducted according to analytical, apparatus and materials, sample collection, preservation, handling, etc., procedures listed in 40 C.F.R. Part 136. Appendices A, B, and C to 40 C.F.R. Part 136 are specifically referenced as part of this requirement. Amendments to 40 C.F.R. Part 136 promulgated and incorporated by reference in OAC 252:606-1-3(b)(7) after the effective date of this Permit shall supersede these requirements as applicable.

#### **E. MINIMUM QUANTIFICATION LEVEL (MQL)**

If any individual analytical test result taken for compliance with this permit is less than the corresponding minimum quantification level listed in OAC 252:606, Appendix H, a value of zero (0) may be used for that individual result for the DMR calculations and reporting requirements.

#### **F. SURFACE IMPOUNDMENT REQUIREMENTS**

1. A minimum freeboard of 1 foot shall be maintained for surface impoundments F01 through F04.
2. The permit may be reopened to implement and/or require impoundment modifications, additions, extensions, and/or operational changes; monitoring and reporting; reclassification of wastes; sludge management plans; best management practices; closure plans; and/or other appropriate actions.
3. At such time as any of the impoundments (F01 - F04) are to be permanently taken out of service or at such time as the contents of any of the impoundments (F01 - F04) pose a risk to the environment or waters of the state, the owner or operator of the facility shall be required to follow all closure requirements contained in OAC 252:616-13.

4. In all other respects, surface impoundments F01 through F04 shall be subject to standard conditions for surface impoundments contained in OAC 252:616, Subchapters 5, 7, and 13, including but not limited to requirements for construction, operation, maintenance, monitoring and closure.

G. OTHER DISPOSAL METHODS

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewater shall be disposed of at a state-approved industrial waste disposal site or to a company for recycling.

If any such industrial wastes are removed from the facility, the permittee shall keep accurate records which include the following information:

- a. Name and address of company hauling waste;
- b. The type and amount of waste hauled; and
- c. The final disposal site of waste hauled.

Upon request, the above records shall be made available to the staff of DEQ for inspection, review, and copying.

## APPENDIX A

### DESCRIPTION OF WASTEWATER TREATMENT/DISPOSAL SURFACE IMPOUNDMENTS(S.I.s)

| <b>Classification <sup>(2)</sup><br/>OAC 252:616-1-2</b> |   | <b>Liner Type <sup>(1)</sup></b> | <b>Holding Capacity <sup>(1)</sup><br/>or Dimensions OAC<br/>252:616-7-1(6)</b> | <b>WASTEWATER<br/>Destination</b> |
|--|---|----------------------------------|---|-----------------------------------|
| <b>S.I.</b>  | <b>Wastewater</b>   |                                  |   |                                   |
| F01  | Cooling tower blowdown, boiler blowdown, water softener blowdown, and stormwater runoff – Class III | Concrete                         | 60,000 gallons<br>30' x 80' x 4'  | Outfall 001                       |
| F02  | Cooling tower blowdown, boiler blowdown, water softener blowdown, and stormwater runoff – Class III | Concrete                         | 60,000 gallons<br>30' x 80' x 4'  | F01                               |
| F03  | Cooling tower blowdown, boiler blowdown, water softener blowdown, and stormwater runoff – Class III | Concrete                         | 60,000 gallons<br>30' x 80' x 4'  | F02                               |
| F04  | Cooling tower blowdown, boiler blowdown, water softener blowdown, and stormwater runoff – Class III | Concrete                         | 60,000 gallons<br>30' x 80' x 4'  | F03                               |

<sup>(1)</sup> Based on information contained in the application.

<sup>(2)</sup> Wastewater Classification according to OAC 252:616-1-2.

### LOCATION OF SURFACE IMPOUNDMENTS

| <b>S.I.</b> | <b>Legal Location</b>   | <b>Relative Location of Impoundments</b>                                   |
|-------------|---|--|
| F01         | NW¼, SW¼, SE¼, Section 8, Township 19, Range 12 EIM, Tulsa County, Oklahoma | Located approximately 100 yards west of the plant offices and north of F02 |
| F02         | NW¼, SW¼, SE¼, Section 8, Township 19, Range 12 EIM, Tulsa County, Oklahoma | South of F01   |
| F03         | NW¼, SW¼, SE¼, Section 8, Township 19, Range 12 EIM, Tulsa County, Oklahoma | South of F02   |
| F04         | NW¼, SW¼, SE¼, Section 8, Township 19, Range 12 EIM, Tulsa County, Oklahoma | South of F03   |