Oklahoma City Storm Water Quality Management Plan

JULY 1, 2025

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SWMP Introduction

Oklahoma City's (OKC) Storm Water Management Plan (SWMP) is a collaborative planning process between the Oklahoma Department of Environmental Quality and OKC. The primary OKC Department responsible for ensuring compliance with the Storm Water Discharge Permit is the Public Works Department, Storm Water Quality Management Division (SWQ). The programs are fully funded and staffed to provide the services required to meet the permit conditions and the objectives defined within this plan. In compliance with the Oklahoma Pollutant Discharge Elimination Systems Act and the rules of the Oklahoma Department of Environmental Quality (ODEQ), OKC, the Oklahoma Turnpike Authority (OTA) and the Oklahoma Department of Transportation (ODOT) were granted authorization to discharge storm water from the Municipal Separate Storm Sewer System (MS4) effective May 1, 2024. The permit and authorization to discharge expires at midnight on April 30, 2029.

The purpose of the Storm Water Quality Division is to provide inspections, enforcement, water quality assessments, public outreach, household hazardous waste services and emergency response for citizens, businesses, and government agencies so they can comply with the Clean Water Act and enjoy a safe and clean environment.

The SWMP covers all areas located within the corporate boundaries of OKC served by municipal separate storm sewers owned or operated by the permittee. The SWMP, together with any attached interagency agreements, management plans, total maximum daily load documents, or references to applicable management documents shall clearly identify the roles and responsibilities of each permittee.

Recent review of the OKC Public Works Hydrology Geographic Information System (GIS) files indicated 45,826 junctions. Junctions are storm water drainage point-based features which include drainage inlet boxes (29,526), junction boxes (4,847), manholes (11,431) and 22 are classified as other. According to the storm drainage line work from the Public Works Hydrology GIS files, 7,033,151 linear feet of conduit, improved channel, roadway crossings, dam inlet/outflow structures, etc. were identified. Some of these structures are identified as privately owned.

OKC is divided into four large drainage basins. The North Canadian (231.6 sq. miles), Canadian River (216.1 sq. miles). Deer Creek (102.3 sq. miles), and the Deep Fork River basin (105.7 sq. miles). An in-depth description of OKC's drainage basins and quality of the waters in those basins can be found in the Comprehensive Report for the Watershed Characterization Project published in January 2017.

The permit authorizes the discharge of storm water from the MS4 to the following receiving waters: Canadian River, North Canadian River, Hefner Lake, Overholser Lake, Silver Lake, Stanley Draper Lake, Airport Heights Creek, Belle Isle Creek, Bennett Creek, Bluff Creek, Britton Creek, Brock Creek, Campbell Creek, Chapel Hill Creek, Cherry Creek, Chisholm Creek, Cow Creek, Crooked Oak Creek, Crutcho Creek, Deer Creek, Dry Creek, Edmond Creek, Foreman Creek, Hog Creek (and thence to Lake Thunderbird), Kitchen Creek, Lightning Creek, Lost Creek, Mustang Creek, Nichols Creek, Shell Creek, Silver Creek, Spring Creek, Walnut Creek, West Elm Creek (and thence to Lake Thunderbird), and Wynn Creek.

Each permittee shall continue to implement and update the SWMP, including pollution prevention measures, treatment or removal techniques, storm water monitoring, use of legal authority, and other appropriate means to control the quality of storm water discharged from the MS4, including annual reporting requirements. Controls and activities in the SWMP shall identify areas of permittee responsibility on a jurisdictional, applicability, or specific area basis. The SWMP shall include controls necessary to effectively prohibit the discharge of non-storm water into the MS4 and reduce the discharge of pollutants from the MS4 to the Maximum Extent Practicable (MEP).

The SWMP shall cover the term of the permit and shall be updated as necessary, or as required by the Director,

to ensure compliance with the statutory requirements of Section 402(p)(3)(B) of the Clean Water Act (CWA). Implementation of the revised and updated SWMP shall begin on the effective date of each permit authorization and may be achieved through participation with co-permittees, public agencies, residents, or private entities in cooperative efforts to satisfy the requirements of Part II of the permit.

Each permittee shall independently ensure legal authority to control discharges to and from those portions of the MS4 over which it has jurisdiction. This legal authority may be a combination of statute, ordinance, permit, contract, order or inter-jurisdictional agreements with permittees having legal authority to:

- Compliance with permit conditions relating to discharges from portions of the MS4 where permittee is the operator;
- SWMP implementation on portions of the MS4 where the permittee is the operator;
- Compliance with annual reporting requirements as specified in Part IV.C (of the Permit);
- Collection of representative monitoring data required by Part IV.A (of the Permit) according to such agreements as may be established between permittees; and
- A written plan of action to assume responsibility for implementation of stormwater management and monitoring programs on its portion of the MS4 should inter-jurisdictional agreements allocating responsibility between permittees be dissolved or in default.

The OKC MS4 Permit is effective for a five-year permit term. Near the termination of each permit, OKC must submit proposed programmatic and procedural changes. These changes were submitted to ODEQ on September 15, 2017, November 15, 2017, and May 15, 2019 (see Appendix AQ).

Applicant Information

Applicant Name: City of Oklahoma City

Applicant Address: 420 West Main Street, Suite 360, Oklahoma City Oklahoma 73102

Primary Contact: Debbie Miller, P.E. – Director of Public Works / City Engineer

Secondary Contact: Derek Johnson, Environmental Protection Superintendent

Primary Contact Telephone: (405) 297-2581

Secondary Contact Telephone: (405) 297-1517

Ownership Status: Local Government

Co-Applicant 1– Oklahoma Department of Transportation

Co-Applicant 1 Primary Contact- Matt Pace, Clean Water Manager

Co-Applicant Primary Contact Telephone – (405) 421-2359

Co-Applicant 1 Address – 200 Northeast 21st Street, Oklahoma City, Oklahoma 73105

Co-Applicant 2 – Oklahoma Turnpike Authority

Co-Applicant Primary Contact – Mr. Edward Dihrberg, P.E.

Co-Applicant Primary Contact Telephone – (405) 425-7449

Co-Applicant 2 Address – P.O. Box 11357, Oklahoma City, Oklahoma 73105

General Information

- Zip Codes

Sixty-six zip codes were identified within OKC.

OBJECT ID	ZIP CODE	Post Office	OBJECT ID	ZIP CODE	Post Office	OBJECT ID	ZIP CODE	Post Office
1	74851	McLoud	23	73115	Oklahoma City	45	73109	Oklahoma City
2	73020	Choctaw	24	73160	Oklahoma City	46	73107	Oklahoma City
3	73084	Spencer	25	73135	Oklahoma City	47	73102	Oklahoma City
4	73045	Harrah	26	73071	Norman	48	73104	Oklahoma City
5	73054	Luther	27	73026	Norman	49	73129	Oklahoma City
6	73049	Jones	28	74857	Newalla	50	73103	Oklahoma City
7	73145	Oklahoma City	29	73099	Yukon	51	73106	Oklahoma City
8	73110	Oklahoma City	30	73020	Choctaw	52	73105	Oklahoma City
9	73064	Mustang	31	73150	Oklahoma City	53	73112	Oklahoma City
10	73162	Oklahoma City	32	73165	Oklahoma City	54	73118	Oklahoma City
11	73142	Oklahoma City	33	73149	Oklahoma City	55	73111	Oklahoma City
12	73134	Oklahoma City	34	73150	Oklahoma City	56	73127	Oklahoma City
13	73013	Edmond	35	73165	Oklahoma City	57	73116	Oklahoma City
14	73013	Edmond	36	73149	Oklahoma City	58	73132	Oklahoma City
15	73141	Oklahoma City	37	73139	Oklahoma City	59	73008	Bethany
16	73151	Oklahoma City	38	73170	Oklahoma City	60	73122	Oklahoma City
17	73131	Oklahoma City	39	73159	Oklahoma City	61	73114	Oklahoma City
18	73121	Oklahoma City	40	73169	Oklahoma City	62	73120	Oklahoma City

OBJECT ID	ZIP CODE	Post Office	OBJECT ID	ZIP CODE	Post Office	OBJECT ID	ZIP CODE	Post Office
19	73117	Oklahoma City	41	73179	Oklahoma City	63	73078	Piedmont
20	73115	Oklahoma City	42	73128	Oklahoma City	64	73173	Oklahoma City
21	73115	Oklahoma City	43	73108	Oklahoma City	65	73012	Edmond
22	73115	Oklahoma City	44	73119	Oklahoma City	66	73130	Oklahoma City

- Counties

Five counties were identified to fall partially or wholly within OKC's corporate boundaries including Oklahoma, Canadian, Cleveland and to a lesser extent Pottawatomie and Grady.

- Cities

Cities within or adjacent to OKC were researched. Staff identified forty-two cities which corporate boundaries were either within OKC or within 3,000 feet of the OKC Corporate boundary.

No.	City Name	No.	City Name	No.	City Name
1	Arcadia	16	Bridge Creek	31	Bethany
2	Shawnee	17	Shawnee	32	Stockyards
3	Bethel Acres	18	Newcastle	33	Lake Aluma
4	Pink	19	Jones	34	Forest Park
5	Piedmont	20	Harrah	35	The Village
6	Piedmont	21	Midwest City	36	Bethany
7	Piedmont	22	Del City	37	Warr Acres
8	Spencer	23	Smith Village	38	Valley Brook
9	Union City	24	Moore	39	Mustang
10	Edmond	25	Norman	40	Nichols Hills
11	Luther	26	Minco	41	Oklahoma City
12	Yukon	27	Tuttle	42	Unincorporated
13	Choctaw	28	Blanchard	43	Unincorporated
14	Nicoma Park	29	Woodlawn Park	44	Unincorporated
15	McLoud	30	Sportsmans Club	45	El Reno

- Permits

Appendix C provides OKC's Notice of Intent for the 2023 Pesticide General Permit with the Oklahoma Department of Agriculture, Food and Forestry. This permit is for specific pesticide use categories applied to Waters of the United States. Additional information regarding OKC's Pesticide General AgPDES permit can be found in Component 10 of this report. The information in Appendix Z provides the Department's, Division's

and contractors of Oklahoma City which are permitted through the SWQ Industrial Discharge Permit. This list includes airports, applicable OKC contractors, landfills/disposal facilities, equipment yards, materials storage yards, libraries, the OKC Household Hazardous Waste Collection Facility and OKC Wastewater Treatment Plants.

Air permits were researched through the DEQ Data Viewer. The most recent GIS shapefile was downloaded (published December 2023) to obtain the most recent list of air permits. 412 permits were identified. Two Oklahoma City air permits were identified, the Southeast Landfill and the Draper Water Treatment Plant. Air permits are provided in Appendix AA.

Two hundred and twenty-seven Pollution Discharge Elimination System (PDES) permits were identified using the DEQ's statewide database within Oklahoma City. Permit status indicated ninety-two with no permit status, four marked as "001A", fifteen as "admin continued", seventy-one as "effective", and forty-five as "terminated". Two OKC PDES permits (OKC North Canadian and OKC South Canadian WWTPs) were identified within the corporate boundaries. See Appendix AB to view all PDES permits within OKC.

Staff identified 29 total retention facilities within OKC. These facilities are owned by other municipalities or private entities. Facilities within OKC jurisdictional boundaries are located inAppendix AM.

Source Identification

- Ordinances

This section provides a brief description of the ordinances, guidance, and other controls which limit the discharge of non-stormwater to the MS4. Each SWMP Component in the following sections describes many of the ordinances which apply to that program. These ordinances are the foundation for the protection of storm water infrastructure & downstream flooding, the collection and structure of the storm water utility fee, prohibition of non-storm water discharges, use of best management practices and permit requirements, among others. Although many different ordinances apply to the management of storm water runoff, the main ordinances related to limiting the discharge of non-storm water are found in the OKC Municipal Code, Chapters 16 Drainage & Detention; Chapter 48 Grading, Erosion, and Sediment Control; and Chapter 57 Permitting & Enforcement.

On September 28, 1999 the City Council passed ordinances that pertain to storm water quality. These ordinances require owners, developers, contractors or facility owners to have a storm water discharge permit and/or land disturbing permit for construction or industrial activities based on 1992 Clean Water Act guidelines.

The purpose of Chapter 16 is stated in §16-1 "*It is the intent of this chapter to protect the general health, safety and welfare of the public from the hazards and damages of flooding from the various drainage areas in the City; to provide clean and sanitary channels for runoff; to prevent pollution of watersheds, streams and natural channels; to prevent the encroachment of buildings or improvements on natural drainage channels; to equitably apportion the costs of improvements; to protect natural scenic areas' and to provide for the conservation of the natural resources of the area. All subdivisions of land and all developments or improvements of any character*

which affect drainage in any portion of the City shall be subject to the provisions of this chapter. This chapter is not intended to repeal, abrogate, or impair any existing easements, covenants, or deep restrictions. However, where this chapter and another ordinance conflict or overlap, whichever imposes the more stringent restrictions shall prevail."

The purpose of Chapter 57 is stated in §57-130 *"It is the purpose of this article to address the mandates of the Federal Government and establish a stormwater utility to promote health, safety and welfare by providing for studying, designing, operating, construction, equipping, maintaining, acquiring, and owning within the City a stormwater drainage system. The establishment of a stormwater drainage system would:*

1) reduce flood and storm losses and inconveniences from uncontrolled stormwater runoff in the City;

2) improve that the movement of emergency vehicles is not prohibited nor inhibited during storm or flood periods; and

3) preserve the City's watercourses, improve and preserve water quality, minimize water quality degradation, and otherwise facilitate urban water resource management techniques, including both the reduction of pollution and the enhancement of the urban environment, including but not limited to the NPDES permit requirements and such other requirement of the City, State or Federal Governments."

Various guidance documents are used to inform the public regarding storm water requirements, pollutant reduction methodologies, and best management practices. Component 7 lists the pamphlets, brochures and other information available to the public. Guidance documents such as OKC's Best Management Practice Manual for Construction and Land Disturbing Activities and the PlanOKC are described in the Component 2. Notices may be used to inform industrial and construction permit holders. Examples of these notices can be found in Appendix H and Appendix I (Area Specific Construction Requirements: Lake Thunderbird Watershed TMDL Specific Requirements for Construction Stormwater Permits and Area Specific Industrial Requirements: Lake Thunderbird Watershed TMDL Specific Requirements for Multi-Sector General Permits (Industrial) Stormwater Permits, respectively). The methods used to collect water quality data and other environmental information, enforcement procedures, and other common activities are described in the SWQ Standard Operating Procedures (SOPs). Each SWMP component list the SOPs associated with each program. A complete list of the Division SOPs is located in Component 1.

- MS4 Boundaries - A map of the OKC MS4 boundaries can be found in Appendix AD. This map displays the location of OKC within the State and provides the location of the City corporate boundaries.

  Land use activities were calculated using the 2021 National Land Cover Database (NLCD). The OKC boundary was used to extract the data for OKC. These data were summarized in the following table. Ten land use categories are provided. Urban (40.7%), grassland (29.2%), deciduous forest (17%), and cropland (9%) make up the top four highest percentages.

- Population densities were obtained through the United States Census estimates (www.census.gov). In OKC, the July 1, 2023 population estimate was 702,767. A population density map is provided in Appendix AG. Population was further researched using the 2023 Oklahoma Population Projection 2020-2070 (Oklahoma Department of Commerce). Oklahoma County is forecast to experience an average growth rate of 0.88% over the next 50 years. Population projections indicate that Oklahoma County may exceed 1 million by 2055. Counties surrounding Oklahoma City are forecasted to see substantial growth. Tulsa and Oklahoma City combined will represent 36% of the state's population. PlanOKC provides some additional insight to areas within the City which are estimated have growth. This growth prediction is predicted to 2050 (see map located in Appendix AK). In OKC, the estimated population by 2028 (10-year forecast) is 773,313.

Land Cover	Acres	Sq. Miles	Percentage
Barren Lands	424	0.7	0.1%
Cropland	35,599	55.6	9.0%
Mixed Forest	252	0.4	0.1%
Deciduous Forest	67119	104.9	17.0%
Temperate Grassland	115305	180.2	29.2%
Temperate Needleleaf Forest	1353	2.1	0.3%
Temperate Shrubland	3570	5.6	0.9%
Urban	160831	251.3	40.7%
Water	10349	16.2	2.6%
Wetland	625	1.0	0.2%

- Research was conducted to determine all landfills, compost facilities, transfer stations or other treatment, storage or disposal facilities for municipal waste. The list includes ten closed and operating facilities. Municipal waste is deposited at the following private landfills in OKC; the OKC Landfill (7600 SW 15th Street), Southeast OKC Landfill (7001 South Bryant Avenue), or the East Oak Sanitary Landfill (3201 Mosely Road). OKC's Household Hazardous Waste Facility (1621 South Portland Avenue) is open for residents to dispose of unwanted household hazardous chemicals and is considered a Solid Waste Transfer Station. Other facilities include Stericycle Transfer Station (15 NE 47th Street), Enso Solutions (2701 Haindl Drive), Medical Waste Services (1604 SE 39th Street), and the compost facilities Prairie Dirt Solutions (9240 N Kelly Avenue) and Fertile Ground Compost Facility #1 (2228 South Santa Fe Avenue). Further information regarding OKC's municipal waste disposal locations can be found in Appendix AL.
- Using the NLCD as a base to determine land use in OKC, the average runoff curve numbers were compiled. The NLCD does not provide the resolution to specifically categorize all land uses (such as discriminating between row crops with residue versus row crops no residue or high intensity residential versus urban districts). Conservative values were used. Runoff coefficients are presented in Appendix AI.
- Oklahoma Pollution Discharge Elimination System (PDES) permits were obtained from the most recent data available at the DEQ data portal. OKC identified thirty-one PDES discharge permits within the corporate boundaries which are listed in Appendix G.
- OKC GIS files were used to identify 5,504 surface water impoundments (lakes, ponds, etc.) which are partially or wholly within OKC. 12,981 surface water acres were calculated using OKC's hydrology GIS datasets. Three low water river dams are located in the Oklahoma North Canadian River; the May Avenue Dam (near I-40 and May Avenue), the Paul H. Brum dam (near SW 7th and Walker Avenue), and the Eastern Avenue Dam (near I-40 and Eastern Avenue). Additionally, dams are located at each of the water reservoirs in OKC (Lake Stanley Draper, Lake Hefner, and Lake Overholser). Detention structures were identified using OKC GIS hydrology datasets. 91 public and private structures totaling

~459 acres are listed in Appendix AM and a map is provided in Appendix AN. OKC is continuing to determine the locations of other types of BMPs such as bio-infiltration, proprietary devices, constructed water quality controls and infiltration surfaces.

- Outfall locations to Waters of the State were identified using the following methodology. The most recent State Integrated Report waterways were superimposed over the storm drain features in ArcGIS. A buffer of 2,000 ft. was drawn around each waterway. Storm drainage features were selected which crossed or were completely within these boundaries. All storm water features which drain directly to these waterways were marked with a point feature. XY Coordinates and other relevant data were generated for each location (when available). OKC identified 600 outfalls which drain to Waters of the State. These locations are listed in Appendix AO and a map is provided in Appendix AP.
- Public Parks, open space, and recreational areas. The OKC GIS was utilized to calculate the area of the 166 park areas in OKC. 4,282 acres of park space were identified. Park types include neighborhood recreational spaces, green spaces, special use areas, sports complex areas, dog parks, metropolitan spaces, nature venues, district venues, and community spaces. The list of parks can be found in Appendix AH.

Discharge Characterization

- Monthly Mean Precipitation March 2017 – March 2023 can be found in Appendix AE. This table displays the monthly precipitation values, annual sums, and monthly mean of the precipitation for 2017-2023.
- Receiving waters are listed in Appendix E. These include all waters within OKC with a water body identification number some of which receive no storm water flows from OKC's MS4. All identified waters are within the corporate boundaries of OKC. Water bodies with known water quality problems are identified in 2022 303(d) list. These impaired stream segments are listed in Appendix F.
- Field Screening – field screening methodology is described in the Illicit Discharge Detection and Elimination (IDDE) Monitoring SOP #16 (DRAFT revision 9/30/2022). For convenience, this SOP has been added to Appendix AF.
- Characterization Plan – The characterization of waters in OKC is composed of a historic program, existing programs and a proposed program. Historically, the Watershed Characterization Program completed a full assessment (to an extent practicable) of the "state of streams" in OKC in relation to State Water Quality Standards. A subsequent program, the Priority Based Monitoring Program was initiated to further assess stream reaches which were identified as violating one or more water quality standard. A newly authorized program, the Trend and Load Based Monitoring Program is requested to continue a long-term monitoring effort which has the capability of assessing pollutant loads within a stream reach or major outfall and eventually to determine any potential trends. Although this program calls for monitoring limited parameters, these parameters are present in surface waters and are often impacted by management changes in a watershed. Continuous monitoring of discharge and collection of flow weighted composite samples will provide comprehensive water quality data for assessing stream constituent loading, better data for TMDL development and implementation monitoring.

The Wet Weather Analytical Program characterizes runoff waters discharged from the MS4. Currently,

the characterization of these waters is based on specific stations, selected from a single land use type (or combined land uses) to determine an event mean concentration. This excludes contributing sources from base flows and non-storm water discharges and focuses exclusively on elevated discharges. The variability from storm-to-storm is continuously observed with these data. The time, hazards involved, and effort required to obtain this information limits the capability of OKC to collect a significant number of these samples to make decisions based on the data collected. With the proposed sampling program, discharges from low, base, elevated, and high conditions will be sampled on a flow weighted approach. Multiple samples will be collected in any given water year providing a larger sample pool to assess the quality of water within the reach. Stations will be selected from stream reaches with known water quality violations, current and future project areas, and from areas where continuous or additional data is needed. Stations will also be selected from existing Wet Weather Analytical Monitoring stations. These stations may be located anywhere within a drainage basin provided that no deleterious impacts occur from flood water backup or other unforeseen problems. Other considerations include monitoring objectives, safety, and access among others.

Finally, the Illicit Discharge Detection and Elimination Program is used to characterize dry weather flows at over 570 stations in OKC. These stations were selected based on the criteria established in 40 CFR Part 122.26. This monitoring is conducted with strict adherence to weather conditions which exclude storm water precipitation as a contributing source of MS4 flow. As stated in the CFR "in large municipal separate storm sewer systems, no more than 500 cells need to have identified field screening points". OKC exceeds this required number of monitoring stations and will continue to update as needed to characterize dry weather flows.

The Trend and Load Based Monitoring Program key components are the establishment of stations located throughout the City. These stations will be continuously monitored. Some stations will be located in rural areas (existing Lake Thunderbird TMDL stations) while others will be located in low, medium and high intensity developed areas. The information obtained at the existing stations to date has yielded useful information about the character of pollutant loading in OKC. On review of these data, OKC can review pollutant loadings that are related to non-storm event, combined wet/dry conditions, and at times strictly wet weather discharges. Simple calculations can provide weekly, monthly or annual pollutant loadings. In years five and ten of the program, trend analysis may be performed. Considerable data should be acquired by year five, providing sufficient data pools for monotonic trend analysis (Hirsh, R.M. 1988. *Statistical methods and sampling design for estimating steps trends in surface water quality*). The actual methodology to be used is unknown due to the lack of prior knowledge about the nature of the data sets. Seasonality, exogenous variables, and non-normality are just a few factors which must be considered in the analysis. The following tests will be considered for future trend analysis:

	Type of test	Not adjusted for covariate (X)	Adjusted for covariate (X)
No Seasonality	Parametric	Linear regression of Y on t	Multiple linear regression of Y on X and t
	Mixed	-	Mann-Kendall on residuals from regression of Y on X
	Nonparametric	Mann-Kendall	Mann-Kendall on residuals from LOWESS of Y on X
Seasonality	Parametric	Linear regression of Y on t and periodic functions	Multiple linear regression of Y on X, t, and periodic functions

	Type of test	Not adjusted for covariate (X)	Adjusted for covariate (X)
	Mixed	Regression of deseasonalized Y on t	Seasonal Kendall on residuals from regression of Y on X
	Nonparametric	Seasonal Kendall on Y	Seasonal Kendall on residuals from LOWESS of Y on X

Y = dependent variable of interest, X = covariate, t = time
(From Helsel, D.R. and R.M. Hirsch. 1992. *Statistical methods in water resources*)

Fiscal Resources

- Fiscal resources can be found in each SWMP Component. Detailed information can be found in SWMP 1 and 18. Component 1 provides details regarding the Utility Fee charges associated with water meter size and the 2017-2023 performance of the Storm Water Drainage Utility fee. Component 17 displays other revenue sources such as fines, court costs, and permitting fees. An overview of OKC's financial resources, organization structure, demographics, Wards, Mayor and Council members, expenditures, and much more can be found in the most recent Adopted Budget. The FY2024 Adopted Budget can be accessed for review at the following URL: Budget and Finance | City of OKC

Legal Authority and Interagency Agreements

- Ordinances have been previously discussed within this Section (see Source Identification). Interagency agreements are discussed in the Component 17. A list of the SWQ's Memorandum of Understandings is provided. Scanned images of the MoUs can be found in Appendix Z.

Each SWMP Component is described in the following sections of the SWMP Those sections include: 1) SWMP Document; 2) Post Construction Management in New Development and Redevelopment; 3) Structural Controls and Collection Systems Operations; 4) Construction Site Runoff; 5) Industrial and High Risk Runoff; 6) Household Hazardous Wastes / Used Motor Vehicle Fluids; 7) Public Outreach; 8) Pollution Prevention / Good Housekeeping for MS4 Operations; 9) Roadways; 10) Pesticide, Herbicide, and Fertilizer Application; 11) Pollution Complaint and Spill Response Program; 12) Floatables; 13) Wet Weather Analytical; 14) Impaired Waters Monitoring: 15) Trend and Load Based Monitoring Program; 16) Illicit Discharge Detection and Elimination Program; 17) Supporting Permit Conditions, Monitoring Programs, and Documents; and Total Maximum Daily Load (TMDL). Attempts have been made to describe the following items in order for each SWMP Component.

1. **Program Components**
   Describes the permitted activities as detailed in the SWMP, Part III, Table A of OKC's OKS000101 MS4 Permit.
2. **Definitions**
   Provides definitions for the consumer which clarify the use of acronyms or terminology not commonly used outside of water quality management.
3. **Ordinances**
   Provides ordinances, references, and in some cases when important, the language of the ordinance, or a general description for clarification.
4. **Standard Operating Procedures (SOP)**
   Identifies any SOPs used for each program.

5. **Resources**
   Provides a description of the staff for each SWMP Component. Staffing includes those personnel that are directly working within the scope of the component. Fluctuations in personnel, due to unforeseen events, may occur during the permit term. Efforts have been made to reflect the base personnel for each program. Increases in personnel may be necessary. These positions may be provided through part-time, temporary, contract, or full-time position adjustments. Other resources may be identified in this section including field equipment and financial resources. This section is limited to those budgets within the SWQ Division.
6. **General Program Description**
   Provides a descriptive narrative of a basic intent and scope of the SWMP Component. This section elaborates on program/project objectives as necessary.
7. **Component Metrics**
   Metrics are used to determine program success and may be simple or analytically derived. Current metrics are subject to change dependent on program evaluation or changes to priorities during the permit duration.
8. **Narrative Goals**
   Provides an overall statement of the intent of each storm water component.
9. **Cooperating Departments, Agencies and Communities**
   Includes participating departments, agencies and communities which contribute to the function and operation of the SWMP component execution. Minor contributing partners may not be provided as a cooperating Department, Agency or Community.
10. **Area-Specific Requirements**
    Describes areas within the MS4 jurisdiction which have additional requirements. Although each section will cover this subject, only certain permit components will have any depth of information provided.
11. **Analysis**
    If appropriate, this section provides analysis of historical trends and future efforts which may enhance the SWMP component.

SWMP Component 1: Storm Water Management Plan Document

1. Program Components:

A. Review and update the SWMP to reflect any new permit requirements.
B. Evaluate the existing SWMP in relation to discharges to 303(d) impaired water(s) and TMDL reduction goals and update as necessary.

2. Definitions:

Co-permittee – is defined by Oklahoma Administrative Code (OAC) 252:606-1-3(b)(3)(L), which adopts and incorporates by reference 40 CFR 122.26(b)(1).

MS4 – Municipal Separate Storm Sewer System is regulated as a point source. 40 CFR Part 122.2 states: "*Point source means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff (see 40 CFR Part122.3)".*

NPDES – National Pollutant Discharge Elimination System is defined in 40 CFR 122.2 as a national program for issuing, modifying, revoking and enforcing permits, and imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of CWA.

Permittee - refers to any "person", as defined in OAC 252.606-1-3(b)(3)(B), which adopts and incorporates by reference 40 CFR 122.2, authorized by this OPDES permit to discharge to Waters of the United States.

Pollutant(s) of Concern (POC). POC is often used when referring to the particular pollutant(s) as described in any municipal TMDL waste load allocation or watershed-based plan.

Stormwater Charge – the fees levied within the boundaries OKC for the use of the OKC's stormwater drainage system and facilities and shall include a stormwater base fee and stormwater utility discharge fee. The stormwater base is hereby established to meet the requirements and regulations of local, State and Federal governments, including but not limited to the NPDES permit. The stormwater discharge fee is hereby established to develop a stormwater utility to develop and maintain a stormwater drainage system.

Stormwater Management Program - an overall strategy and framework for the stormwater management activities of the OKC.

SWMP – Storm Water Management Plan refers to a comprehensive program to manage the quality of storm water discharged from the MS4. For the purpose of the OKC Storm Water Discharge Permit, the SWMP is considered a single document, but may consist of separate programs (e.g. "sections or chapters") for each permittee and include appendices or references to other relevant documents.

TMDL – Total Maximum Daily Load is a study which establishes pollutant load reductions necessary to meet

State Water Quality Standards. The TMDL takes into account point source pollution (WLA), non-point source pollution (LA) and a margin of safety (MOS). A TMDL is expressed by the following calculation:

$$TMDL = WLA + LA + MOS$$

Violation or Violation of Code means (1) doing an act that is prohibited or made or declared unlawful or an offense by ordinance or by rule or regulation authorized by ordinance; or (2) failure to perform an act that is required to be performed by ordinance or by rule or regulation authorized by ordinance.

3. Ordinances:

Ordinance	Title	Language / Description
§1-6(a-e)	Penalty for Violations	
§57-133	Storm Water Drainage Fund	**(a)** A special fund or funds shall be maintained for the purpose of identifying and controlling all revenues and expenses attributable to storm water charges. All storm water charges and all loans, grants or funds received for the administration, operation, construction and improvement of the storm water drainage system and facilities shall be deposited in such fund or funds. Disbursements for costs of data collection, planning, designing, engineering, policing, constructing, maintaining, operating, and improving drainage services and facilities and any other activity provided for by this ordinance shall be made from the appropriate fund or funds. **(b)** A special Stormwater Management Enterprise Fund shall be established to receive all stormwater charges for the use of the City's storm water drainage system and facilities to meet applicable local, State and Federal regulations, including but not limited to the NPDES permit. **(c)** Expenditures and disbursements from the Storm Water Management Enterprise Fund shall be at the direction and discretion of the City Council.
§57-134 (a-b)	Stormwater Charge and Exemptions	Ordinances describe the storm water charges and exempted property types. The ordinance also describes where all proceeds are deposited.
§57-136 (a-b)	Collection of Stormwater Charge	The ordinance describes the storm water charge, required deposits and billing frequency. The ordinance also describes the process for non-payment or late payment of the storm water charges.
§57-137	Appeal or Adjustments of Charge	Describes the appeal process for users if storm water charges are perceived to be inaccurate or erroneous. The ordinance provides a method review by the Director and City Manager.
§57-138	City Council Discretion	Ordinance provides that the Director shall recommend storm water services, improvements and facilities to the City Council. It is the discretion of the City Council to approve these measures.

Ordinance	Title	Language / Description
§57-140	Purpose	It is the purpose of this article to protect, maintain, and enhance the environmental of the City of Oklahoma City and the short-term and long-term public health, safety, and general welfare of the citizens of Oklahoma City by controlling discharges of pollutants to the City's Stormwater System and to maintain and improve the quality of the community water into which the stormwater outflows flow, including, without limitation, the lakes, rivers, streams, ponds, wetlands, sinkholes, and groundwater of Oklahoma City.
§57-167	Authority of Stormwater Quality Management	Ordinance identifies the Storm Water Manager and duties authorized to comply with NPDES regulations.
§57-181	Administrative Enforcement Remedies	Ordinances describe the administrative enforcement remedies including the Notice of Violation, Consent Order, Show Cause Hearing, Compliance Order, Cease and Desist Order and the appeal process. (See Appendix K)
§60-57-20	Stormwater Base Fee	Provides the General Schedule of Fees including the NPDES permit schedule of charges.

4. Standard Operating Procedures:

OKC Storm Water Quality Management maintains SOPs for activities covered under the permit. This includes the collection of water samples, testing procedures, operation and maintenance of meters and field equipment, office protocol, household hazardous waste facility procedures, among others. 91 SOPs are currently in place, in draft, in progress, or retired.

Reference Number	*SOP NAME*	*Section Author*	*Current Revision Date*	*Status*
1	Preparing Spiked, Duplicate and Blank Samples for Routine Quality Assurance	Environmental	5/18/2022	Active
2	Alkalinity Measurement	Environmental	5/18/2022	Active
3	Specific Conductance Measurement	Environmental	5/9/2022	Active
4	Dissolved Oxygen Measurement	Environmental	7/22/2022	Active
4a	DO Measurement, ProODO	Environmental	8/31/2022	Active
5	pH Measurement	Environmental	8/31/2022	Active
5a	pH Measurement (YSI Pro 10)	Environmental	9/7/2023	Active
6	Turbidity Measurement	Environmental	8/31/2022	Active
7	Water Temperature Measurement	Environmental	1/5/2024	Active
8	Flow Measurement (SSOM)	Environmental	10/28/2022	Active
9	Flow Measurement (Meter Method)	Environmental	9/27/2022	Active

10	Fish Collection	Environmental	10/31/2023	Active
11	Inorganic and Bacteria Sample Collection	Environmental	10/31/2023	Active
12	Depth Integrated Sampler	Environmental	10/31/2023	Active
13	Winkler Dissolved Oxygen Measurement	Environmental	10/28/2022	Active
14	Reagent & Standards Shelf Life	Environmental	10/28/2022	Active
15	Macroinvertebrate Collection, Subsampling, and Picking	Environmental	1/4/2024	Active
16	Dry Weather/Illicit Discharge Monitoring	Environmental	9/30/2022	Active
17	Wet Weather (Storm Event Monitoring)	Environmental	7/11/2022	Active
18	Groundwater Well Monitoring	Environmental	10/28/2022	Active
19	Chain of Custody and Sample Labeling	Environmental	10/4/2022	Active
20	Floatable Debris Monitoring	Environmental	4/22/2024	Active
21	Habitat Assessment	Environmental	10/31/2023	Active
22	Optical Brightener Monitoring	Environmental	10/28/2022	Active
23	Global Positioning System	Environmental	10/28/2022	Active
24	Automatic Sampler Use & Operation	Environmental	10/31/2023	Active
25	Flow Measurement (Timed Volume Method)	Environmental	3/7/2022	Active
26	Decontamination Procedures	Environmental	10/6/2022	Active
27	Dye Testing	Environmental	10/7/2022	Active
28	Mosquito Control	Environmental	10/7/2022	Active
29	Enforcement	Administration	10/8/2018	In Progress
30	Storm Drain Markers	Environmental	10/31/2023	Active
31	Storm Sewer Camera Unit (Cues Steerable Pipe Ranger with OZII Camera Unit)	Environmental	9/20/2023	Active
32	Scott Scout Multi-Gas Meter	Environmental		Retired
32a	GasAlertMaxXT II 1,2,3,4 gas Detector	Environmental	10/7/2022	Active
32b	Gas Alert Mircro Clip XL1, 2, 3, and 4-Gas Detector	Environmental	9/7/2023	Active
33	Digital Camera / Pictures	Environmental		Retired
34	Data Quality	Environmental	9/15/2023	Active
35	Aerosol Can Consolidation (HHW04)	HHWCC	8/31/2022	Active

36	Bulb Eater (HHW14)	HHWCC	9/28/2022	Active
37	Flammable Liquids Bulking (HHW13)	HHWCC	8/30/2022	Active
38	Drum Identification Numbers (HHW21)	HHWCC	1/23/2023	Active
39	Forklift	HHWCC	6/10/2025	Active
40	Emergency and Non-emergency Spill Response Procedures	Administration	12/1/2017	Active
41	Chemical Labpack (HHW12)	HHWCC	8/3/2022	Active
42	Lockout Tagout	Environmental	9/14/2023	Active
43	Vehicle Unloading (HHW03)	HHWCC	8/31/2022	Active
44	Waste Battery Storage, Handling and Consolidation (HHW05)	HHWCC	9/15/2022	Active
45	Waste Oil/Antifreeze Consolidation (HHW06)	HHWCC	9/16/2022	Active
46	Hydrodynamic Separator Monitoring	Environmental	4/22/2024	Active
47	Telephone Etiquette and Operations	Administration	10/12/2007	Active
48	Land Disturbance Inspections	Construction	6/18/2024	Active
49	Industrial Section	Industrial	10/15/2007	Draft
50	Instructions for Recording Field Information	Environmental	10/11/2022	Active
51	Quarterly Calibration and Maintenance	Environmental	10/28/2022	Active
52	Chlorine Measurement (Using HACH Pocket Colorimeter II)	Environmental	10/31/2023	Active
53	Oklahoma River Debris Barrier (Canal Zone G)	Environmental		Retired
53a	Oklahoma River Debris Barriers	Environmental	3/16/2022	Active
54	Storm Drain Insert Monitoring and Maintenance	Environmental		In Progress
55	High Risk Runoff Data Review Process	Industrial/Environmental		In Progress
56	Passive Sampler (Thermo Scientific Nalgene Storm Water Sampler and Mounting Kit)	Environmental	10/28/2022	Active
57	Programming and Calibration of Permanent Water Quality Stations using 900 Max or AS950 Automatic Samplers and FL90X Series Data Loggers	Environmental	10/31/2023	Active

58	Operation and Maintenance of Permanent Water Quality Monitoring Stations	Environmental	10/31/2023	Active
59	Procedures for Writing an SOP	Environmental	10/8/2018	Retired
60	Plan Review and Routing	Construction	10/9/2024	Active
61	Geiger Counter (HHW02)	HHWCC	10/19/2022	Active
62	Lock Out Tag out (HHW22)	HHWCC	1/23/2023	Active
66	Chemical Segregation (HHW07)	HHWCC	9/23/2022	Active
67	Electronic Waste (HHW17)	HHWCC	10/19/2022	Active
68	Latex Based Paint Can Crushing (HHW09)	HHWCC	9/27/2022	Active
69	Oil Based Paint or Solvent Can Crushing (HHW10)	HHWCC	9/27/2022	Active
70	Power Sprayer (HHW11)	HHWCC	9/27/2022	Active
71	Refueling Fork Truck (HHW16)	HHWCC	8/3/2022	Active
78	Safety Inspections and Training	Environmental	10/20/2022	Active
79	Hazard Communication	Environmental	10/20/2022	Active
80	Street Sweeping Monitoring	Industrial	11/20/2019	Draft
81	Optical Brightener Meter	Environmental	10/31/2023	Active
82	Adult Mosquito Surveillance Program	Environmental	10/21/2022	Active
83	Airport Permit Review Process	Administration	1/11/2022	Draft
84	Cosmetic Cleaning Permit Renewal for Industrial Section	Industrial	1/12/2022	In Progress
85	Issuing a Land Disturbing Permit Procedure	Construction	6/28/2024	Active
86	Terminating a Land Disturbing Activity Permit	Construction	10/9/2024	Active
88	Administrative Permit Issuance	Administration	5/13/2022	In Progress
89	Demolition Permit Authorization Form	Construction	6/28/2024	Active
91	Notice of Violation Database, Ticket Writing and Affidavit Procedures	Administration		In Progress
92	Programming, Calibration and Use of RiverSurveyor M9 Acoustic Doppler Current Profiler (ADCP) Flow Meter and HydroBoard Mounting Procedures	Environmental	9/6/2023	Active
93	Respiratory Protection	Environmental	9/20/2023	Active
94	Permitted and Nonpermitted Confined Space Entry	Environmental	9/20/2023	Active

95	Collection of Samples with an Automatic Sampler	Environmental	11/1/2023	Active
96	Resident Contact (HHW01)	HHWCC	8/30/2022	Active
97	Unknown Chemical Classification (HHW08)	HHWCC	9/23/2022	Active
98	Compactor Safety & Operating Procedures (HHW15)	HHWCC	10/16/2022	Active
99	Personal Audio Device Usage (HHW18)	HHWCC	10/7/2022	Active
100	Procedure for Writing a Technical SOP	Administration	11/5/2021	Active
101	Procedure for Writing a Non-Technical SOP	Administration	11/4/2021	Active
102	End of Shift Facility Closing (HHW19)	HHWCC	10/7/2022	Active
103	4-Gas Monthly Calibration (HHW20)	HHWCC	8/3/2022	Active
104	Exposure Control Plan	Environmental	4/16/2024	Draft
105	reserved for Outreach (need title)	Outreach		In Progress
106	reserved for Outreach (need title)	Outreach		In Progress
107	reserved for Outreach (need title)	Outreach		In Progress
108	reserved for Outreach (need title)	Outreach		In Progress

5. Resources:

Each permittee shall provide adequate finances, staff, equipment and support capabilities to implement their activities under the SWMP. §57-33 Storm Water Drainage Fund provides the special funds created to provide financial assurances to implement the SWMP components. §60-57-20 provides the Stormwater Base Fee (Stormwater Charge). This fee is based on water meter size. Incremental increases were programmed from 2010-2014. Additional increases are programmed over a 5-year term from 2024 through 2028.

Meter Size	July 1, 2010	July 1, 2011	July 1, 2012	July 1, 2013	July 1, 2014	January 1, 2025	July 1, 2025	July 1, 2026	July 1, 2027	July 1, 2028
3/4" or Less	4.50	5.06	5.32	5.53	5.69	6.20	6.71	7.22	7.73	8.24
1"	5.12	5.76	6.05	6.29	6.48	7.06	7.64	8.22	8.80	9.38
1.5"	16.14	18.16	19.07	19.83	20.43	22.26	24.09	25.92	27.75	29.58
2"	21.92	24.65	25.89	26.92	27.73	30.21	32.70	35.19	37.67	40.16
3"	41.57	46.76	49.1	51.07	52.6	57.31	62.03	66.74	71.45	76.17
4"	68.12	76.63	80.47	83.68	86.19	93.91	101.64	109.36	117.08	124.81
6"	132.14	148.66	156.09	162.34	167.21	182.19	197.18	212.17	227.15	242.14
8"	219.3	246.71	259.04	269.41	277.49	302.35	327.23	352.10	376.96	401.84
10"	334.73	376.57	395.4	411.4	423.56	461.51	499.49	537.45	575.39	613.37
16" or Larger	520.74	585.83	615.12	639.73	658.92	717.96	777.05	836.11	895.14	954.22

Storm Water Utility Fee and Other Revenue, 7-Year Performance:

Fiscal	FY25	FY24	FY23	FY22	FY21	FY20	FY19
Fees	$ 19,979,264	$ 19,554,916	$ 19,242,433	$ 19,050,962	$ 18,259,743	$ 18,347,815	$ 17,818,772
Interest	$ 695,326	$ 267,303	$ 485,952	$ 205,943	$ 259,589	$ 407,921	$ 424,375
Other	$ -	$ -	$ -	$ -	$ 320	$ 77	$ -
Permits	$ 137,203	$ 161,628	$ 147,650	$ 146,230	$ 119,440	$ 106,130	$ 124,280
Reimbursements	$ 255,766	$ 270,000	$ 255,766	$ 255,766	$ 255,766	$ 255,766	$ 255,766
Service Charges	$ 307,080	$ 2,096,865	$ 2,214,395	$ 49,928	$ 44,576	$ 43,450	$ 45,143
Transfers	$ -	$ -	$ -	$ -	$ 649,115	$ 395,206	$ -
Fund Balance	$ 20,844,484	$ 17,726,074	$ -	$ -			$ -
Total	$ 42,219,123	$ 40,076,786	$ 22,346,196	$ 19,708,829	$ 19,588,549	$ 19,556,365	$ 18,668,336

Storm Water Quality Staffing:

Classification Title	Range	# of Personnel
Environmental Protection Superintendent	519	1

Classification Title	Range	# of Personnel
Assistant Environmental Protection Superintendent	517	1
Environmental Unit Supervisor	513	5
Environmental Unit Specialist	511 (NE)	4
Environmental Technician	510 (NE)	16
Community Relations Coordinator	509	1
Administrative Coordinator	509 (NE)	2
Office Assistant	411 (NE)	1
Professional Technician	859, PTP	1
Technical Skills Worker	859, PTP	1
Administrative Technician	856, PTP	3
Intern	858, PTP	1
Contract Labor (Qualified Personnel)	Hourly	As Needed

The Storm Water Quality Management Division Organization Chart is provided in Appendix K.

Storm Water Utility Funding (All Positions Funded)

Fiscal	# Positions	Comments
FY20	141.95	Adopted
FY21	141.25	Adopted
FY22	147.45	Adopted
FY23	151.20	Adopted
FY24	152.80	Adopted
FY25	152.15	Adopted

Storm Water Permit, Reinspection and Late Fees

OKC contracted MGT of America Consulting LLC to provide a citywide fee study. The scope of the project was to review user fees for services provided and recommend a fee that would provide full cost recovery. Public Works staff evaluated the consultant's recommended adjustments for reasonableness, consistency and impact on city residents and businesses. The department recommended fee adjustments significantly lower than the consultant's report and Public Works also proposed implementation over 2 years. This ordinance revision was approved by OKC Council on May 21, 2024 with an initial effective date of June 30, 2024.

Seventy-five percent of the fee adjustment will go into effect on July 1, 2024, and the remaining twenty-five percent of the fee increase will be implemented in 2025.

Storm Water Fee Adjustment 2024-2025

Fee Type	Through 6/30/2024	Effective 7/1/2024	Effective 7/1/2025
Permit	$ 55.00	$ 88.75	$ 100.00
Reinspection	$ 35.00	$ 83.75	$ 100.00
Late	$ 15.00	$ 15.00	$ 15.00

6. General Program Description:

The OKC SWMP must be revised as necessary (Part III.A.1) to reflect any new permit requirements and to evaluate the SWMP in relation to discharges to impaired water(s) and TMDL reduction goals within one year of the effective date of the 2024 permit authorization. The SWMP requires periodic review and revision when new BMPs and measurable goals are established to meet the regulatory requirements as authorized by the permit or as required by the DEQ. OKC's goal is to provide an annual review of the SWMP. If only minor changes are made, those changes will be provided to the DEQ on submission of that respective year's Annual Report. A comprehensive review will be conducted to accommodate for minor or major permit changes, once authorized. This chapter of the SWMP provides financial assurances, standard operating procedures, staffing levels, employee classifications, permit costs, enforcement fees and an overview of the major BMPs used to comply with the permit. Modifications to the SWMP are generally provided when a TMDL is adopted (Part I.G.1.a of the OKC MS4 Permit), to capitalize on certain key BMPs to create a more effective management plan, replacement of BMPs with more effective measures, or address changes to the schedules.

Task	Type	Staffing	Comments
SWMP Annual Review	Management Review	Environmental Protection Superintendent (1), Assistant Environmental Protection Superintendent (1), Environmental Unit Supervisor (5), Environmental Unit Specialist (4)	An annual review of the SWMP will occur prior to submission of the Annual Report. Tasks and associated metrics should be incorporated to determine if programs meet permit objectives.
Revise the SWMP as necessary to reflect final permit	Management Review	Environmental Protection Superintendent (1), Assistant Environmental Protection Superintendent (1), Environmental Unit Supervisor (5), Environmental Unit Specialist (4)	SWMP Revision will be accomplished per Part III.A.1 (a-b) of the 2024 permit. • Changes to reflect new permit requirements must be accomplished within one year of the effective date. • Evaluation of SWMP in relation to discharges to 303(d) impaired waters and TMDL reduction goals

Task	Type	Staffing	Comments
			will be accomplished within one year of the effective date.

7. Component Metrics:

Task	Metric	Reporting Figure	Goal
SWMP Annual Review	Complete annual review one time each year	Reviewed: Y/N	Provide an accounting of SWMP changes as a part of OKC's Annual Report to DEQ.
Revise the SWMP as necessary to reflect final permit	Comprehensive review of permit authorization to align SWMP with final permit authorization requirements	List of changes.	Provide a list of SWMP modifications to the DEQ the first annual report of a permit term.

8. Narrative Goals:

The OKC SWMP provides applicable methods, staffing, roles, oversight and responsibilities for the management of storm water quality in OKC's jurisdiction to meet the discharge goals specified in Part I.E. of the OKS000101 MS4 Discharge Permit for OKC. This section provides that the SWMP must be reviewed annually and comprehensively address each permit authorization. Additionally, the SWMP must be addressed when applicable TMDLs are approved by the DEQ and the United States Environmental Protection Agency (USEPA). The following topics describe the permit area, authorized discharges, permittee responsibilities, discharge goals and categories of non-storm water discharges exempted from prohibition, retention of SWMP records and Municipal Code enforcement.

Permit Area - The OKC MS4 Permit Part I.A. provides the following permit area description.

"This permit covers all areas located within the corporate boundary of the City of Oklahoma City that are served by or otherwise contributing to the MS4 owned or operated by the permittee(s)"

The permit area description provided in the OKC MS4 permit provides some insight into areas which may be excluded. Those areas may include roadways not owned or operated by OKC. Certain land uses are out of the jurisdiction of the MS4. 40 CFR Part 122.3(e) Exclusion states: *"The following discharges do not require NPDES permits: Any introduction of pollutants from non-point-source agricultural and silvicultural activities, including storm water runoff from orchards, cultivated crops, pastures, range lands, and forest lands…"* Additionally, Section 402(I)(1) of the 1987 amendments to the Clean Water act exempts agricultural storm water discharges from NPDES permitting requirements (specifically, the clearing of land from agricultural purposes).

Authorized Discharges - The OKC MS4 Permit Part I.B., provides language regarding authorized discharges to include new and existing MS4 owned or operated point sources and certain non-stormwater discharges. Authorized non-stormwater discharges are provided in Part I.B.2 and are authorized provided 1) discharges are insignificant sources of pollutants to the MS4 and 2) documentation is included in the SWMP describing any local controls or conditions placed on such discharges; and 3) a provision is included in the SWMP prohibiting any individual non-stormwater discharge determined to be contributing significant pollutants to the MS4.

a. diverted stream flows;
b. uncontaminated discharges from riparian areas and wetlands;
c. uncontaminated groundwater or spring water;
d. residential building wash water that does not use detergents, solvents, and/or soaps;
e. uncontaminated pumped groundwater;
f. uncontaminated groundwater infiltration;
g. uncontaminated and dechlorinated discharges from potable water sources, including water line flushing and fire hydrant flushing;
h. foundation drains;
i. air conditioning condensate;
j. water from crawl space pumps;
k. footing drains;
l. residential, non-commercial, and charity car washing;
m. landscape irrigation and lawn watering, provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved manufacturers' instructions and/or labeling;
n. uncontaminated and dechlorinated swimming pool discharges (excluding filter backwash or discharges associated with salt water pool systems);
o. street wash water, including wash water generated from the washing of other impervious surfaces such as sidewalks and parking lots, that does not use detergents, solvents, and/or soaps, and from which the operator has obtained the applicable local stormwater permits prior to the commercial activity;
p. discharges in compliance with separate OPDES or NPDES permits;
q. discharges of gray water from municipal splash pads (aka, spray parks or spray grounds), as defined in Oklahoma Statutes 27A O.S. §2-6-107, unless otherwise permitted or regulated by DEQ, provided the discharges comply with all applicable municipal and county ordinances enacted pursuant to law (discharges from recirculating systems shall be de-chlorinated); and
r. discharges or flows from emergency firefighting activities or training activities that are not taking place at a permanent facility, that either do or do not involve per-and polyfluoroalkyl substances –(PFAS)-containing aqueous firefighting foams (AFFFs), and that are consistent with Part II.A.9. of the permit. Procedures shall be in place for the Incident Commander, Fire Chief, or other on-scene firefighting official in charge to make an evaluation regarding potential releases of pollutants from the scene.

s. Measures shall be taken to reduce any such pollutant releases to the Maximum Extent Practicable subject to all appropriate actions necessary to avoid or minimize the impact on water quality and to ensure public health and safety. After the emergency or training activity has ceased, non-stormwater discharges (e.g., discharges associated with clean-up) are prohibited. Determination of cessation of the emergency or training activity is at the discretion of the on-site coordinator.

Limitations of Permit Coverage
1. Discharges mixed with non-stormwater are unauthorized unless such discharges are 1) in compliance with a separate OPDES or NPDES permit; 2) determined not to be a substantial contributor of pollutants to waters of the State.
2. Discharges associated with industrial activity, as defined in 40 CFR §122.26(b)(14).
3. Stormwater discharges associated with construction activity, as defined in 40 CFR §122.26(b)(15), are unauthorized except as provided in Part II.A.5 of the permit.
4. Stormwater discharges currently covered under another permit are unauthorized.
5. Discharges exceeding Water Quality Standards are unauthorized.
6. Discharges not consistent with a TMDL are unauthorized.
7. Discharge of materials resulting from a spill are unauthorized.

Permittee Responsibilities – the OKC MS4 Permit Part I.D. provides the following permittee responsibilities:

1. Each permittee is responsible for:
a. Compliance with permit conditions relating to discharges from portions of the MS4 where the permittee is the operator;
b. SWMP update revisions on portions of the MS4 where the permittee is the operator;
c. Compliance with annual reporting requirements as specified in Part IV.C.
d. Collection of representative monitoring data required by Part IV.A. according to such agreements as may be established between permittees; and
e. A written plan of action to assume responsibility for implementation of stormwater management and monitoring programs on its portion of the MS4 should inter-jurisdictional agreements allocating responsibility between permittees be dissolved or in default.
2. Permittees are jointly responsible for permit compliance on portions of the MS4 where operational or SWMP implementation authority is shared or has been transferred from one permittee to another in accordance with legally binding agreements.

Discharge Requirements – The OKC MS4 Permit Part I.E. provides the discharge requirements:

- *No discharge of toxics in toxic amounts.*
- *No discharge of pollutants in quantities that would cause, have the reasonable potential to cause, or contribute to a violation of Oklahoma Water Quality Standards.*
- *No discharge of floatable debris, oils, scum, foam, or grease in other than trace amounts.*
- *No discharge of non-storm water from the MS4 (except as provided in Authorized Discharges)*
- *No impairment or loss of state-designated beneficial uses of receiving waters as a result of stormwater discharges from the MS4. No degradation of receiving waters as a result of stormwater discharges*

from the MS4 except as authorized by the state in accordance with the state's Antidegradation Policy.

- *Reduction of pollutants discharged to the Maximum Extent Practicable (MEP).*

Retention of SWMP Records

As provided in Part II.G. Oklahoma City shall retain the SWMP developed in accordance with Parts II and III for at least three (3) years after coverage under this permit terminates. The permittee(s) shall make records, including the permit application and a written description of the SWMP, available to the public at reasonable times during regular business hours.

Municipal Code Enforcement

Storm water related regulations can be found in Chapter 16, 48 and 57 of the OKC Municipal Code. Municipal fees, such as permit, reinspection, and late fees are located in Chapter 60. To a lesser extent, municipal code may be used from Chapter 50. If additional regulations are needed, which are outside of the aforementioned regulations, the Division will collaborate with the appropriate Department to ensure compliance. Other enforcement actions may include verbal notifications, license holds, or law enforcement when criminal activities are alleged.

SWQ has multiple approaches to administrative enforcement proceedings and generally follows Division SOP #29. The violation's circumstances and internal policy drive the level of enforcement used in each situation. In most cases, the following administrative enforcement remedies will be used; Notice of Violation, Consent Orders, Show Cause Hearing, Compliance Order, and associated appeal procedures (see Appendix J). Suspected criminal enforcement proceedings may be handled by OKC or referred to the Oklahoma Department of Environmental Quality or other state or federal agency, when applicable. Storm water related code violations are defined in 1-6(a-e) of OKC Municipal Code. Item c provides: *"Except as otherwise expressly provided in this Code, all violations of this Code are declared to be misdemeanors and are classified as either a Class "a" offense or a Class "b" offense. In the absence of provisions to the contrary, including but not limited to a specific penalty, violations of this Code are a Class "a" offense. A person convicted of a Class "b" offense shall be punished by a fine not exceeding $1,200.00 plus costs and fees or imprisonment in the City Jail not exceeding six months or by both such fine and imprisonment. A person convicted of a Class "a" offense shall be punished by a fine not exceeding $500.00, excluding costs and fees. With respect to violations of this Code that are continuous with respect to time, each day the violation continuous is a separate offense*. Item e goes on to state *"the imposition of a penalty does not prevent revocation or suspension of a license, permit or franchise."*

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC Public Works	Administration of all Public Works programs, projects, personnel, funding sources and operations.
OKC IT Department	Responsible for internal technology programs including data storage, databases, telemetry, cellular capabilities and internet-based resources.

Agency	Roles / Responsibility
OKC Public Information Office	Responsible for all public information releases including review of brochures, media announcements, educational campaigns, etc.
Municipal Contractors	Responsible for various contract aspects of debris cleanup, wastewater operations, spill remediation/cleanup, general maintenance, engineering, construction, demolition, among others. Contractors are accountable to provide a service which is in accordance with City Policies and Ordinance.
OKC Utilities Department	Administration of all Utilities Department projects, programs, contracts, personnel, funding sources and operations.
OKC, Utilities Department Solid Waste Division	Administration of programs to control and properly dispose, recycle, and reduce solid waste from residences and businesses in OKC.
Parks and Recreation Administration	Administration of all Parks and Recreation Department projects, programs, contracts, personnel, funding sources and operations.
Oklahoma City Municipal Courts	Primary City Department to ensure due process for Municipal Code violations.
Oklahoma Department of Transportation (ODOT)	Co-permittee with the City of Oklahoma City with regard to the OKC MS4 Permit on ROW owned or operated by ODOT. ODOT may be the lead enforcement agency for matters associated with their ROW.
Oklahoma Turnpike Association (OTA)	Co-permittee with the City of Oklahoma City with regard to the OKC MS4 Permit on ROW owned and operated by OTA. OTA may be the lead enforcement agency for matters associated with their ROW.
Oklahoma Department of Environmental Quality (DEQ)	Primary oversight Agency to administer the OPDES MS4 Permit. DEQ may be the lead enforcement agency for matters that are referred by OKC.

10. Discharge to Impaired Waters

Language taken in part or wholly from Part I.F. of the OKC MS4 Permit OKS000101.

A. Document all MS4 discharges to waters identified on the latest CWA Section 303(d) list of impaired waters in the SWMP.

B. Implement and maintain BMPs that will ensure the 303(d) impairments caused by identified pollutants in the receiving waters will not cause, have the reasonable potential to cause, or contribute to an in-stream exceedance of WQS. The SWMP must:

- Provide a plan that lists the BMPs the permittee(s) have implemented or will implement to reduce the pollutants of concern (POCs). The plan must describe how the permittee(s) expects the selected controls to reduce the POCs.
- Provide outreach program directed toward targeted groups of commercial, industrial, and institutional entities likely to have significant stormwater impacts on the permittee(s) impaired waters.
- Identify and propose controls for any non-stormwater discharges that contribute significant pollutants to the permittee(s)' impaired waters.
- Identify and locate areas likely to have illicit discharges. Conduct inspections based on priority areas in the watershed of the impaired water(s).
- Conduct operation and maintenance procedures for any structural or non-structural stormwater controls to reduce pollutants discharged into impaired water(s).
- Provide a list of flood management projects and how each project assessed the impacts on water quality. OKC must ensure that new flood management projects assess the impacts on water quality and examine existing projects to determine if incorporating additional water quality protection devices and practices are necessary.
- List the BMPs from EPA's menu or selected others that can be used for managing the identified pollutants in OKC's discharges.
- If the pollutant of concern (POC) is bacteria, provide a list of BMPs which address the following areas:
    - Sanitary Sewer Systems
    - On-site Sewage Treatment Systems
    - Illicit Discharges and Dumping
    - Animal Sources
    - Residential Education Programs

OKC waters which are listed on the most recent 303(d) list can be found in Appendix E.. Thirty-four stream segments and lakes are identified as category 5a, 5b, or 5c waterways. Waters identified in the 2022 Integrated Report within OKC can be found in Appendix D and include 102 waterbodies (streams and lakes).

11. Established TMDL Allocations

Language taken in part or wholly from Part I.G. of the OKC MS4 Permit OKS000101.

A. Discharge of a pollutant into any water for which a TMDL or watershed plan in lieu of a TMDL for that pollutant has either been established or approved by DEQ or the EPA is prohibited unless the discharge is consistent with that TMDL or watershed plan.

OKC shall evaluate the existing SWMP in relation to the TMDL reduction goals. Associated modifications to

the SWMP shall be implemented in accordance with the schedule provided in Part III.A.1.b. of the OKC MS4 Permit OKS000101. OKC shall maintain a list of:

- Approved TMDLs or Watershed Plans and associated implementation Plans
- Provide the waste load allocation for each POC assigned to OKC's discharges.
- Identify significant sources of POC entering the OKC's discharges.
- Identify opportunities to address POCs identified with the TMDL or watershed plan and implement those changes. To include:
    - Public education to inform and reduce the discharge of POC(s)
    - Illicit discharge detection and Elimination programs to address POC(s)
    - Use enforcement mechanism as provided by municipal ordinance to regulate the discharge of POCs.

A TMDL reduction plan must be developed (either cooperatively or individually) in accordance with Part III.A.6.a. The plan must incorporate, at a minimum:

- A list of BMPs and alternatives to meet the TMDL requirements.
- A schedule to evaluate BMPs (at least annually) to assess progress and effectiveness.
- Based on evaluations, recommended solutions to achieve measurable goals, when applicable
- If selected BMPs are not effective, as indicated by evaluations, an alternative BMP must be selected within three (3) years of determining a BMP is ineffective

The listed TMDLs are those which delegate a waste load allocation (WLA) to OKC and contain requirements within the TMDL (such as a Compliance Plan, Bacteria Reduction Plan or Monitoring Plan) to comply with the load reduction necessary to meet the WLA.

Area 1: Lake Thunderbird Report for Nutrient, Turbidity and Dissolved Oxygen TMDLs.

- Lake Thunderbird Watershed in OKC including Hog Creek (OK520810000030_00); West Branch of Hog Creek (OK520810000040_00), East Elm Creek (OK520810000110_00); Elm Creek (OK520810000100_00); West Elm Creek (OK520810000140_00); Kitchen Creek (OK520810000150_00); Kitchen Lake (OK520810000160_00); North Fork of the Little River (OK520810000170_00); and Little River (OK52081000080_00).

Area 2: Bacteria and Turbidity Total Maximum Daily Loads for the Cimarron River Study Area, Oklahoma (OK620900, OK620910)

- Bluff Creek Watershed (OK620910040140_00) from Lake Hefner downstream to OKC boundary.

Area 3: Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520)

- North Canadian River (OK520510000110_20 – Fecal Coliform and Enterococci), North Canadian River (OK520520000010_00 – Fecal Coliform and Enterococci), North Canadian River (OK520520000010_10 – Fecal Coliform and Enterococci), North Canadian River (OK520520000010_20 – Fecal Coliform and Enterococci), North Canadian River (OK520520000010_40 – Fecal Coliform, E. coli, and Enterococci), North Canadian River (OK520520000210_00 – Enterococci), North Canadian River (OK520520000250_00 – Fecal Coliform), Crutcho Creek (OK520520000070_00 - Fecal Coliform),

Crooked Oak Creek (OK OK520520000150_00 – Fecal Coliform and E. coli). Mustang Creek (OK520520000240_00 – E. coli).

12. Analysis:

The Storm Water Utility Fee, reimbursements, co-permittee annual fees, permit fees and miscellaneous charges fund the operations of storm water management in OKC. Program demands have increased. OKC Council approved a 5-step increase for the Storm Water Utility. These increases are effective starting January 2025, July 2025, July 2026, July 2027, and July 2028.

SWMP Component 2: Post-Construction Management in New Development and Redevelopment

1. Program Components:

A. Update Stormwater Criteria Manual
B. Review Oklahoma City's subdivision regulation to identify impediments to LID and propose updates to remove those impediments.

2. Definitions:

OKR10 - General Permit for Construction Activities within the State of Oklahoma. This permit is generally authorized for a 5-year term. This permit defines the requirements of certain land disturbing and construction related activities within the jurisdictions of the State of Oklahoma and applicable MS4's.

BMP – Best Management Practice are grouped into two categories; structural and non-structural. Non-structural BMPs are behavioral changes or efforts designed to prevent or reduce waterborne pollutants before entering storm drainage network. Structural BMPs are constructed facilities generally designed to treat or remove waterborne pollutants after entering the MS4. BMPs may also be referred to as a Stormwater Control Measure (SCM).

SWPPP – Storm Water Pollution Prevention Plan is a document that identifies the activities conducted at a site to eliminate or reduce the discharge of pollutants generated from activities at the location. SWPPP includes information regarding structural and non-structural control practices, physical features of the site, spill prevention and response, materials storage, site inspections, employee training among other topics. The SWPPP is a living document which should be updated as necessary when site conditions change, control practices become unnecessary, and modification is needed to ensure compliance with relevant code.

3. Ordinances:

Ordinance	Title	Language / Description
§59-10250(d)	Paving	Ordinance provides requirements for off-street parking, aisles and access driveways and driveway approaches. Item d. specifically details the requirements of alternative pervious surfaces including pervious pavement.
§59-8150.7.1	Rainwater Harvesting	A method of catching and storing rainwater runoff in a rain barrel, drum, cistern, or similar enclosed container. This use unit shall be subject to use regulations set forth in Section 59-9350.51.1.
§59-9350.51.1	Rainwater Harvesting	A. Any home garden, community garden, roof garden, or urban farm may include equipment for the collection of rainwater to be used as a supplemental watering system, provided that the rainwater collection system conforms to the following provisions: (1) Rainwater shall be stored in such a way as to prevent the infestation of insects and other pests through the following means: (a) Systems shall be securely covered.

		(b) All inlets and points where standing water could be exposed to the outside shall contain screens with a pore size of one mm or less. (2) Discharge water shall not discharge directly to a street, alley or other public way, and shall not create an icy condition on any sidewalk, street, parking area, or other paved surface. (3) Above ground storage containers shall not be allowed in front of the front building wall of the primary structure and shall not be visible from the public way, with the following exception: (a) Rainwater storage containers less than 85 gallons with a maximum of two containers per structure.

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #46	Hydrodynamic Separator Monitoring	4/22/2024
SOP #48	Land Disturbance Inspections	6/18/2024
SOP #60	Plan Review and Routing	10/9/2024
SOP #85	Issuing a Land Disturbing Activity Permit	6/28/2024
SOP #86	Terminating a Land Disturbing Activity Permit	10/9/2024
SOP #89	Demolition Permit Authorization Form	6/28/2024

5. Resources:

Administration of the Areas of New Development and Re-Development components for OKC is provided by the Public Works Department, Storm Water Quality Management Division. The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Storm Water Permitting Program Account provides the funding for the Industrial and High-Risk Runoff Program and the Construction Site Runoff Program. The FY24-25 budget for this account is $1,831,348.00.

Classification Title	Range	# of Personnel
Environmental Protection Superintendent	519 (E)	1
Assistant Env. Protection Superintendent	517 (E)	1
Environmental Unit Supervisor	513 (E)	2
Environmental Unit Specialist	511 (NE)	1
Environmental Technician	510 (NE)	5
Laborer II	PTP	0
*Contract Labor (Qualified Personnel)	Hourly	0

6. General Program Description:

Multiple Departments, Divisions, and Sections are involved with this component of the SWMP. The component is initiated through development guidelines and plan submittals to the City, construction site inspections, final occupancy and ultimately post development controls. The OKC Planning Department, Utilities Department, Fire, Development Services Department and Public Works Department are involved with the design criteria, permitting, inspection and approval processes.

Development Policy, Guidelines and Criteria

OKC Planning Department provides planning and study services to improve the welfare of the people and the community by creating more convenient, equitable, healthful, efficient, and attractive places for present and future generations. Planning plays a crucial role in developing policies which balance new development, essential services, environmental protection and innovative change.

PlanOKC is a comprehensive policy document used by City leaders, developers, business owners, and citizens to make decisions about future growth, development, policy, and capital improvements. PlanOKC provides long range policy direction for land use, transportation, economic development, housing, public services, and natural and cultural resources. The plan provides policy framework which contributes a significant role in reducing storm water contamination. The framework of the plan consists of seven sections. Elements of sustainability, green infrastructure, storm water quality control, preservation, resource enhancement and resource management are identified by the initiatives below.

- Preserve or enhance natural areas and open space connectivity.
- Improve water quality and conserve water resources.
- Establish a comprehensive urban forestry program.
- Reduce the impacts of environmental hazards.
- Improve air quality.
- Promote environmental stewardship.
- Enrich biodiversity and natural habitats in urban, suburban, and agricultural areas.

As a development policy document, this is the largest component of promoting green infrastructure, sustainability and storm water quality enhancement to date. PlanOKC can be accessed online at http://planokc.org. OKC's website provides an easy method to evaluate environmental related initiatives throughout the plan. For example, the topic environment will provide all initiatives in each of the seven sections. A discussion is provided to help consumers better understand each initiative researched. OKC's Development Guide can be accessed at the following URL: http://planokc.org/development-guide/ and was developed to define the overall direction of PlanOKC. The seven "Big Ideas": 1) Transportation Choice & Mobility; 2) Housing Choice; 3) Healthy Citizens; 4) Community Attractiveness; 5) Thriving Neighborhoods; 6) Efficient Development; and 7) Natural Character are each described for the consumer. The land use plan provides revised use designations which consists of seven land use typology types created through public input and technical analysis regarding housing, transportation, environmental considerations and the efficiency of providing public services. 70% of PlanOKC survey respondents support protecting natural areas, including providing better regulations and incentives to protect environmental and natural resources.

Adherence to PlanOKC is informed through staff technical evaluations and reports to the OKC Planning Commission. An appeal process is available to development applicants through the OKC Board of Adjustments.

The Board of Adjustments consists of five board members who are appointed by the Mayor. More information can be found at the following URL: https://www.okc.gov/departments/planning/subdivision-zoning/board-of-adjustment

The Public Works Department revised OKC Municipal Code Chapter 16, Drainage and Flood Controls, in 2024. Changes included the removal of code inconsistencies, removal of the drainage criteria from the ordinance, creating a separate Drainage Criteria Manual as referenced by ordinance, revision of definitions consistent with the Federal Emergency Management Agency (FEMA), and revision of drainage design criteria to address current and future flooding matters. Chapter 16 includes the comprehensive requirements of drainage improvements to protect the general health, safety and welfare of the public from the hazards of flooding; to provide clean and sanitary channels for runoff; to prevent pollution of watersheds; to prevent encroachment of building or improvements on natural drainage areas; to equitably apportion the cost of improvements; to protect natural scenic areas; and to provide for the conservation of natural resources of the area. Chapter 16 lists design methods, equations, mathematical variables, floodplain management, and other criteria that are used to design all facets of drainage related facilities or analysis.

Chapter 16 and DCM Changes

Detention	On-site detention for all new developments; removal of the Fee-in-Lieu Detention; outlet structure design for the 2, 5, 10, 25, 50, and 100-year storm events; waivers for drainage developments which meet certain site characteristics with supporting drainage calculations.
Drainage Channels	Open drainages to be designed to convey the 100 year or; have land that would be inundated by such that the event would be within the easement or the common area
Storm Sewer	On-grade storm sewer systems design to the 25-year storm
Drainage Criteria Manual	Storm sewer design removed from Chapter 16 and published in the Drainage Criteria Manual (DCM); DCM is referenced by ordinance; DCM may be revised and approved by the Public Works Director/City Engineer without City Council approval.
Public Storm Sewer Systems	Public standards apply when the development has public streets; required review by Public Works Engineering; mandatory PW inspections; new infrastructure must be dedicated to the City; City assumes future maintenance.
Private Storm Sewers	Required for developments with private streets; plans and calculations must be submitted to PW; plans and calculations will be stamped as "Received" and processed for the required Work Orders; the City will inspect sites. Note: The City may review private plans at a cursory or detail level.
Floodplain Activity Permit	Floodplain Activity Permits are required for all construction activities within 200 feet of a FEMA mapped floodplain; FEMA elevation certificates are required for building/structures within 200 feet of FEMA mapped floodplain; and a Surveyor's Certificate is required outside of 200 feet.

The Drainage Criteria Manual provides supplemental information related to the Drainage Ordinance requirements

and engineering design criteria for surface runoff, storm sewer and floodplain improvements within OKC. The DCM may be revised periodically and as needed to address community needs. All changes will be posted on the City's website for 60 days prior to becoming effective. The DCM may be access at Oklahoma City Drainage Criteria Manual.

SWQ Plans through Construction

OKC's Best Management Practices Manual for Construction and Land Disturbing Activities provides engineers, developers, contractors or builders the information necessary to design, install and maintain appropriate BMPs to meet storm water quality regulations. This manual can be accessed online at the following link www.okc.gov/swq .

OKC's building and construction permitting system requires a review of all public and private construction plans submitted to Public Works, Utilities Fire, and Parks Departments. During this process, check prints are sent to multiple City offices for review, including SWQ. During the SWQ review process, check print plans are reviewed to assess the limits of disturbance for applicable Corps of Engineers 404 Permit requirements, FEMA Floodplain Activity, Permit needs 303(d) listed areas/TMDL areas, and aquatic resources of concern areas. Plans are examined to determine compliance with OKC municipal code. Deficiencies are noted and provided back to the submitting entity as plan comments or notes for correction or plan modifications. The final site plan must indicate the correct installation practices, BMP type and location of BMP's selected for each construction site. Before the final plans are approved by the City and land disturbing activities begin, OKC requires the owner/operator of a construction site to obtain a SWQ Land Disturbance Permit by submitting a Notice of Intent (NOI), SWPPP, Erosion Control Site Plan, and permit fee.

Land disturbing activities which have been completed and meet certain conditions are qualified for a final inspection or "final". The owner/operator must request a final from the SWQ Manager or designee. OKC will inspect the site to determine if the following conditions have been met for a Notice of Termination (NOT) to be issued:

- The site has been stabilized with a vegetative density of at least 70% per square foot of the original ground cover, or
- All storm water discharges from construction activities have been eliminated, or
- A transfer of owner/operations; operator is no longer in charge of the site and a transfer of coverage to a different operator has been received.

If the conditions have been met, OKC will approve the NOT and submit the final to the Development Services Development Center. If conditions have not been met, the NOT is not accepted, and a re-inspection fee is charged for each NOT inspection thereafter until the aforementioned conditions are achieved. From the permit issuance to final termination, OKC conducts regular inspections to ensure compliance with the permit and SWPPP provisions.

Post Construction BMP Tracking

Post construction tracking of BMPs is imperative to ensure the designed pollutant removals are being achieved over time. OKC has created a database to record the location and other relevant information for City owned and

operated structural BMPs. This effort includes multiple Divisions as the information may be gathered by several Departments in the City. Some BMPs are assessed on a complaint basis while other structural BMPs are assessed on a scheduled basis. In cases which the BMP can be measured (such as a sand filter or grit vaults), results will be tracked to ensure that proper maintenance is being conducted.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Examine All Construction Plans Submitted for Plan Review	# Plans Reviewed	# Plans Reviewed Annually	Demand Based. Report Annually
Conduct Final Inspection Prior to Issuing Certificate of Occupancy	# Construction NOT Submitted	# Construction NOT Approved Annually	Demand Based. Report Annually
Review Ordinances for Regulatory Barriers of LID and Alternative SWQ Control Measures	List Ordinances Reviewed	Ordinances Reviewed	Review Annually. Report Annually
Provide Education Regarding LID and Alternative Storm Water Control Measures	Number of Educational Events Where Traditional and Non-Traditional Structural Control Information Is Provided	# of Events and # in Attendance	2 Presentations or Educational Sessions Annually. Report Annually
Develop and Provide Educational Materials Which Include LID, Pollutant Removal, Storm Water Storage and Alternative SQMs	Number of Educational Materials Distributed	# and Type of Educational Materials Provided	Provide Educational Materials to a wide diversity of Industrial, Commercial and Residential Customers

Task	Metric	Reported Figure	Goal / Reporting
Update the Construction BMP Manual (as needed)	Record Updates (as needed)	Report Any Updates	Review Annually. Report Annually
Develop LID Guidance Manual	Develop Manual	Provide as an Annual Report Delivery	April 2026

8. Narrative Goals:

Provide a description and relevant resource locations for the policies, procedures, criteria and performance standards for applicable development and re-development in OKC. Provide a review process for the SWMP, BMP documentation, applicable ordinances for enhancement of traditional and innovative structural control measures which may partially or wholly incorporate elements of LID and green infrastructure to enhance the removal of pollutants generated from precipitation runoff. Provide updates to the development of LID guidance for the community.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC, Public Works Dept., Administration	Administration of all Public Works programs, projects, personnel, funding sources and operations.
OKC, Public Works Dept., Storm Water Quality Management Division	Primary permitting, inspection, enforcement, education/outreach and is the reporting agency for OKC MS4 NPDES compliance.
OKC, Public Works Dept., General Obligation Bond (GOB) Program	Charged with the development of projects funded through General Obligation funds. These funds may be used for specific storm water quality related projects on new or re-development projects or used in the enhancement of existing project scopes to include water quality control features.

Agency	Roles / Responsibility
OKC, Public Works, Field Services	Responsible for inspection services of City and private projects to ensure construction and installation is per standard specifications of City codes.
OKC, Public Works Dept. Engineering –Technical Review	Responsible for development of the Drainage Criteria Manual, Drainage and Flood Control Ordinance, and drainage related review including detention, retention, storm water control measures, among others.
OKC, Planning Department	Development of Planning Documents and Studies which provide policy and guidance to the development community and built environment.
OKC IT Department	Responsible for internal technology programs including data storage, databases, telemetry, cellular capabilities and internet-based resources.
OKC Parks Department	Responsible for Park Operations (including trash removal and grounds keeping of those facilities). Charged with the design and construction of Park facilities which may have elements of LID, conservation, preservation or other SWCMs.
OKC Utilities Department	Charged with installation, repair and maintenance of water and wastewater infrastructure which are often located at or near roadways. Responsible for the collection of solid waste and any spills which occur on roadways from the aforementioned collection activities.
Oklahoma Department of Environmental Quality	Primary MS4 NPDES oversight Agency in Oklahoma

10. Area Specific Requirements:

In 2017, the OKC Planning Commission approved the use of a low impact technique, pervious paving, in plans submitted to OKC for Planned Unit Development (PUDs) and Simplified Planned Unit Developments (SPUDs). Applicants seeking to use pervious paving are required to include language in the PUD/SPUD document allowing its use pending staff review and approval of submitted specifications, drawings and technical details.

2024 updates were made to Zoning and Planning Code to allow rainwater harvesting as a conditional use for all districts which includes agricultural and residential use (Table 6100.1), office and commercial, industrial, industrial, Bricktown Core Development District, Downtown Design District, Downtown Transitional District, Stockyards City District, among others.

The 2017 General Obligation Bond Authorization package includes propositions related to street, bridge, traffic control, transit, parks and recreation, drainage control, police and fire improvements, and enhancements. Several new or upgraded facilities were proposed including libraries, civic complexes and the downtown City arena. These enhancements or new construction have been a significant re-development in some cases. OKC continues to explore opportunities for water quality enhancement features will planning project buildouts.

11. Analysis:

Not applicable for this SWMP Component.

SWMP Component 3: Structural Controls and Collection Systems Operations

1. Program Components:

A. Maintain and update a list of active drainage and structural control projects and the status of each project.
B. Continue the maintenance program of both above and below-ground structural stormwater controls, including inspection, repair, and clean-up for detention ponds, roadside ditches, storm sewer pipes, catch basins, inlets, culverts, and pump stations.
C. Continue to evaluate the City's street sweeping program, which includes frequency, timing, and efficiency, arterial streets, residential areas, and spot areas as necessary. Street sweeping frequency shall be based on land use, trash, and stormwater pollutant levels generated.
D. Continue to use controls for deicing and sanding activities that include storage facilities and truck washing facilities.
E. Flood Control Projects
F. Review Flood Management Project Designs for compliance with the City's Stormwater Criteria Manual
G. Continue to evaluate, prioritize, and install structural controls on developed areas or retrofitting existing structures.

2. Definitions:

Drainage Criteria Manual (DCM) - means the manual providing design guidance for use by landowners, developers, architects and/or engineers, and/or their agents, in preparation of drainage plans for development within the City. It establishes rules and design standards and requirements and methods that must be consistently followed and will be enforced throughout the City's jurisdiction. The design methods presented in this manual are intended to provide minimum standards for determination of runoff rates, methods of storm water collection, conveyance, and detention. The DCM sets forth the technical details, provisions, standards, and requirements established by the City Engineer, as may be amended from time to time.

Flood Control - controls which are constructed and maintained to prevent a general or temporary condition of partial or complete inundation of normally dry land areas from:

a) the overflow of inland or tidal waters.
b) the unusual and rapid accumulation of runoff of surface waters from any source.

3. Ordinances:

Ordinance	Title	Language / Description
§16.1	Purpose and Scope	It is the intent of this chapter to protect the general health, safety and welfare of the public from the hazards and damages of flooding from the various drainage areas in the City; to provide clean and sanitary channels for runoff; to prevent pollution of watersheds, streams and natural drainage channels; to prevent the encroachment of building or improvements on natural drainage channels; to equitably apportion the cost of improvements; to protect natural scenic areas; and to provide for the conservation of the natural resources of the area. All subdivisions of land and all developments or improvements of any character which affect drainage in any portion of the City shall be subject to the provisions of this chapter. This chapter is not intended to repeal, abrogate, or impair any existing easements, covenants, or deed restrictions. However, where this chapter and another ordinance conflict or overlap, whichever imposes the more stringent restrictions shall prevail.
§16-3	Inclusion by reference the Oklahoma City Drainage Criteria Manual	The means and methods of calculations, design parameters, requirements and limitations referenced within and supporting the intent and purpose of this chapter shall be outlined and defined by the most recent version of the Oklahoma City Drainage Criteria Manual (DCM). The DCM provides the means and methods of calculations necessary for the application of and compliance with the minimum standards of this chapter and other governing ordinances, rules, and regulations. Calculations made utilizing DCM, as technical standards and requirements, must be confirmed by the signature and seal of an Engineer registered and licensed in the State of Oklahoma.
§16-6	Primary Drainage Channel Requirements	Ordinance provides the requirements and reference to the DCM for primary drainages located within, or immediately adjacent to an improvement, construction area, development or subdivision. The ordinance addresses unimproved channels within a subdivision which shall be placed as common areas or private drainage. In addition, the ordinance provides new construction, or substantial modification must have the lowest floor elevation to one foot above the 100-year flood frequency.
§16-7	Secondary Drainage Channel Requirements and Surface Drainage Requirements	Ordinance provides the requirements and reference to the DCM for secondary drainage channels and surface drainage requirements which are within, or immediately adjacent to, an improvement, development or subdivision. Ordinance requires elevations below 100-year flood elevation to be dedicated as drainage easement or common area. Ordinance requires concrete lined channel or underground conduits for certain drainage sizes. In addition, the ordinance provides new

Ordinance	Title	Language / Description
		construction, or substantial modification must have the lowest floor elevation to one foot above the 100-year flood frequency.
§16-8	Surface Drainage	Ordinance provides the requirements and reference to the DCM for surface drainage for certain land use and not to exceed runoff values to prohibit overtopping a six-inch curb during the 25-year flood event.
§16-9	Rural Subdivisions	Ordinance provides the drainage requirements and reference to the DCM for rural acreage subdivisions (one acre or larger lots).
§16-10	Detention	Ordinance provides the detention requirements and reference to the DCM for all new developments and associated discharge rates not to exceed prior development rates for the 2, 5, 10, 25, 50, and 100-year frequency storms. The ordinance also provides for alternative methods (waiver of on-site detention) provided approval from the City Engineer.
§16-11	Major River Channels	Ordinances provide the drainage requirements and reference to the DCM for all major river channels which are located within or immediately adjacent to an improvement or subdivision. In addition, the ordinance provides new construction, or substantial modification must have the lowest floor elevation to one foot above the 100-year flood frequency.
§16-12	Bridge and Culverts	All flow of water across continuous streets or alleys shall be designed such that the 100-year flood flow will not overtop the roadway. In addition, the 50-year water surface elevation shall be below the low chord of the bridge. Culverts shall be designed to carry the 50-year frequency flood with no more than 1-foot of headwater at the upstream end of the culvert such that the 100-year frequency flood will not overtop the roadway.
§16-13	Closed Storm Sewers	Closed storm sewers shall be constructed of precast or prefabricated pipe or built in place, closed box culvert design in conformance with the DCM, and construction specifications and requirements. Stormwater facilities and systems carrying runoff from streets must be designed to accept the run-off from a 25-year frequency rain event for the drainage area involved. Provided that in sump areas the stormwater facilities and systems must be designed to convey the runoff from 50-year frequency storm event with an overflow structure provided in accordance with the DCM

Ordinance	Title	Language / Description
§16-14	Open Paved Storm Drainage	Open paved storm drainage channels must be constructed in accordance with City specifications, this chapter, and the DCM requirements. Fences may be installed adjacent to the paved channel but not drilled onto the channel, except as approved by the City Engineer.
§16-15	Areas Outside Subdivisions	The City reserves the right to require drainage improvements to be designed and built to preclude any backup of stormwater inundating any areas outside of the dedicated drainage easements in the development or subdivision or onto adjacent land as a result of a 100-year frequency flood.
§16-16	Floodplain activity permit requirements	A floodplain activity permit is required for all man-made activities occurring within the FEMA floodplain, and all man-made activities within 200 feet of the external boundary of a FEMA floodplain. All activities within the FEMA Floodplain, including Zone A or Zone AE, may require a flood study to show such activities do not cause any rise in 100-year frequency flood elevation.
§57-135	Inspection	The Director shall have the right to inspect any on-site detention or retention facility at any reasonable time to determine if it is in compliance with the approved design and is capable of functioning properly. The Director shall have the right to inspect any property within the City to determine the source, quantity, quality or flow rate of stormwater and to determine the source and nature of pollutants, hazards and/or activities creating or promoting same.
§60-16-1	Fee In Lieu of On-site Stormwater Detention Facilities	Fee - $0.075 per square foot of impervious surface installed or constructed from January 24, 1989, to June 30, 1989. Thereafter, the fee shall be adjusted on July 1, 1989, and annually on July 1 of each year thereafter in accordance with the following formula” Fee = ($0.075)(X)(Y/Z) Where: $0.075 = The base fee per square foot of impervious surface. X = The number of square feet of impervious surface installed or constructed. Y = “Engineering New Record”: Twenty City Average Construction Cost Index as published the last week of June of the most current year. Z = “Engineering News Record”: Twenty City Average Construction Cost Index as published the last week of June in the year of 1988.

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #31	Storm Sewer Camera Unit (Cues Steerable Pipe Ranger with OZII Camera Unit))	9/20/2023
SOP #46	Hydrodynamic Separator Monitoring	4/22/2024

5. Resources:

Not Determined

6. General Program Description:

Flood control projects and structural controls are maintained by private and public entities. Oklahoma City's Streets and Drainage Maintenance Division is primarily charged with the operation and maintenance of public roadways, curbs, surface and subsurface drainage within Oklahoma City. Exceptions exist for privately owned drainage, common areas, and private right-of-way/easements. Other OKC Departments which provide operation and maintenance of structural controls include the Utilities Department and the Parks and Recreation Department.

Structural control assets include detention ponds, surface and subsurface storage, curblines, channels, conduits and other drainage features designed to carry, hold, contain, remove debris and pollutants or otherwise transport storm water to receiving waters. OKC water reservoirs (Lake Stanley Draper, Lake Overholser, Lake Hefner and aqueduct) may be considered a part of flood protection system and are maintained by the Utilities Department. The Flood and Structural Control component accounts for those applicable Capital Improvement Projects as well as the operation, inspection, and maintenance of these assets.

Inspections of the drainage infrastructure are accomplished by multiple methods including Citizen complaint/inquiry, flooding reports, Closed Circuit Television (CCTV) inspections, debris accumulation observations, and monitoring system reports, among others.

The Flood and Structural Control Program's major components include the capital improvements projects funded through the General Obligation Bond packages, capital improvement projects funded through non-bond accounts, paving and drainage improvement projects, drainage maintenance programs, drainage evaluation programs, review of public and private drainage/detention for ordinance compliance and evaluation, and prioritization of areas and projects for implementation of structural quantity and quality control measures. Other grants, such as Community Block Development Grants, may be applied for, but these are not considered a long-term funding source.

Task	Type	Staffing / Strategic Goal	Comments
Complaint Response (Storm Water Quality Complaint)	Service	Environmental Protection Superintendent (1); Assistant Environmental Protection Superintendent (1); Environmental Unit Supervisor (5); Environmental Specialist (4); Environmental Technicians (17)	SWQ responds to various quality complaints at structural controls. Events such as fish kills, standing water, illicit discharge, odors, blockages, or flooding issues may be investigated.
Complaint Response (Engineering Complaint)	Service	Drainage Management Staff (as assigned)	Drainage Management staff respond to reported issues associated with flooding, storm sewer sizing or other quantity-related issues. Often, quality complaints are referred to SWQ for investigation and enforcement.
Maintenance	Service	Public Works – Streets and Drainage Maintenance Division	Responsible for routine and technical repairs and maintenance of flood and other drainage system controls. Programs include but are not limited to street, curb, storm sewer, outfall, rural road ditch repair and upkeep.
Maintenance	Service	Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technicians (3)	SWQ is responsible for the inspection and maintenance of storm water quality control devices installed by the City. SWQ works with other Divisions as needed to obtain support for cleaning operations.

Task	Type	Staffing / Strategic Goal	Comments
Maintenance	Asset Management	OKC IT Department, Public Works Department's GIS/CAD Support Program	OKC assets are identified on GIS shapefiles. This includes the storm sewer network, storm sewer junctions, ponds, streams and other features. The Hydrology network was created to provide a seamless network which combines storm sewer assets with receiving stream network assets.
Drainage Technical Review	Technical Evaluation of Drainage Ordinance Compliance	Public Works - Drainage Engineering	Review of submitted plans and specifications for private and public projects to ensure compliance with drainage code and policy.
Inspection Services	Asset Assessment	OKC Public Works Field Services	Responsible for inspecting contractors' work on all infrastructure projects. Also provides survey services and maintains the City's Pavement Management System that tracks all arterial streets and keeps a current rating on each street.
Paving Engineering	Asset Management and Evaluation	OKC Public Works Traffic Engineering	Responsible for the review of public paving projects, evaluation of existing public paved surfaces. The division uses internal staff or contracted services to rate associated surfaces and to cost improvement remedies.

Task	Type	Staffing / Strategic Goal	Comments
Capital Facilities Improvement /Maintenance	Project Creation/Management	Public Works – Facilities Capital Improvement and Oklahoma River Maintenance Program (CIP)	Responsible to work with various internal and external stakeholders in bond/non-bond related capital improvements (such as libraries, non-bond funded street improvements, structural control measures, municipal buildings and other public improvements, etc.). Responsible for management and maintenance of the Oklahoma River low water dams, river debris barriers, and sediment removal.
Capital Improvement - Bond	Project Creation/Management	Public Works – General Obligation Bond Program	Responsible for working with various internal and external stakeholders for Bond related capital improvements including contracting firms for design and project management.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Capital Improvement Projects	Report Active Bond Funded Projects	Bond Authorization Year, Proposition, Project Number, Location, Ward, Construction Estimate and Status (Categories include Drainage Design, Drainage Construction, Street Design, and Street Construction)	Goals are set by OKC annually. SWQ will report active projects annually.
Drainage Evaluation	Miles of CCTV	Miles of CCTV	Goal is set by

Task	Metric	Reported Figure	Goal / Reporting
	Inspection	inspection conducted by Streets and Drainage Maintenance Division and the Storm Water Quality Division/Year	demands/Report Annually
Drainage Evaluation	Number of CCTV Operations	Number of CCTV Inspections conducted by Streets and Drainage Maintenance Division and the Storm Water Quality Division/Year	Goal is set by demands/Report Annually
Drainage Maintenance – Debris Removal and Maintenance (Contracted)	Number of Private Companies contracted to maintain public drainage infrastructure.	# Active Contracts/Year	Report Annually
Drainage Maintenance – Debris Removal and Maintenance (Contracted)	Miles of public drainage infrastructure maintained by contracted private companies.	Miles of channel, storm drainage structures, number of detention structures.	Report Annually
Drainage Maintenance – Debris Removal and Maintenance (Contracted)	Pounds of Debris Removed from public drainage infrastructure	Pounds of Debris Removed/Year	Report Annually
Drainage Maintenance – Debris Removal and Maintenance (Municipal Operations)	Program Budget/Number Personnel	Annual Budget and Number of Personnel Allocated to Channel Maintenance	Report Annually
Channel Maintenance – Debris Removal and Maintenance (Municipal Operations)	Tons or pounds of debris removed from public drainage infrastructure	Tons Removed and Properly Disposed/Year	Report Annually

Task	Metric	Reported Figure	Goal / Reporting
Drainage Operation and Repairs (Municipal Operations)	Number of public drainage infrastructure repairs	Number of Repairs/Year (Will be reported categorically by Drainage Structure Repairs and Concrete Channel/Creek repairs)	Report Annually
Oklahoma River Maintenance and Repairs	Number of Cubic Yards of Debris Removed.	Number of cubic yards of materials removed from the three river basins.	Report Annually.
Drainage Technical Review	Number Drainage Plans Reviewed	Plans Reviewed/Year (Will be reported categorically by type Detention, Storm Drainage, Retention, Other)	Reported Annually
Drainage Technical Review	Number of Storm Water Tap Permits	Number Storm Water TAP Permit Issued	Reported Annually
Drainage Technical Review	Number of Flood Plain Administration Permits	Number of FPAT Issued	Reported Annually
Storm Water Quality Management	Number of Non-Storm Water Discharge Forms	Number of Non-Storm Water Discharge Forms Reviewed	Internal Only; Not Reported
Stormwater Control Measures (SCM)	Description of applicable SCMs installed by OKC	Description of any SCMs installed by OKC including location, budget, and receiving watercourse.	Reported Annually

8. Narrative Goals:

Provide sound flood control management through consistent application and review of relevant Oklahoma City codes, standards, and criteria for the design of detention, storm drainage structures, green infrastructure, storm water quality control measures and other flood control assets. To ensure that storm water quality

control structures are designed to reduce pollutants (when applicable) and are protective of life and property. Ensure that the storm drainage system is appropriately sized for the drainage basin characteristics and provide relevant studies related to those systems which are performing poorly. Provide Floodplain Administrative Services and ensure compliance with the Drainage Criteria Manual and other applicable State and Federal regulations.

Provide in-house or contractually supplied labor force to maintain drainage flood control structures and other storm water control measures in good working order to provide safe removal of storm water discharges.

Provide short and long-term funding sources for development of new structures, maintenance or enhancement of existing structures for flood protection.

9. Cooperating Agencies, Departments and Communities:

Agency	Roles / Responsibility
OKC Public Works	Administration of all Public Works programs, projects, personnel, funding sources and operations.
OKC IT Department	Responsible for internal technology programs including data storage, databases, telemetry, cellular capabilities and internet-based resources.
OKC Public Information Office	Responsible for all public information releases including review applicable brochures, media announcements, educational campaigns, etc. Additionally responsible for the OKC Action Center. This service provides residents with an easy forum to report issues with a formal response system.
Municipal Contractors	Responsible for various contract aspects of debris cleanup, wastewater operations, spill remediation/cleanup, general maintenance, design, engineering, construction, demolition, among others. Contractors are accountable to provide a service which is in accordance with City Policies, ordinance and applicable standards.

Agency	Roles / Responsibility
Oklahoma Department of Transportation	Co-permittee with the City of Oklahoma City with regard to the OKC MS4 Permit. Drainage and flood controls may be cooperative with the ODOT.
Oklahoma Turnpike Association	Co-permittee with the City of Oklahoma City with regard to the OKC MS4 Permit. Drainage and flood control may be cooperative with OTA.
United States Army Corps. of Engineers (COE)	Oklahoma City screens applicable construction permits to ensure proper Federal permitting is in place prior to permit issuance.
United States Federal Emergency Management Agency (FEMA)	Oklahoma City administers flood plain related permitting for projects in or within 200' of the 100-year floodplain.
OKC Department of Airports	Department provides review and approval of construction-related projects within certain airport zones. An avigation agreement may be necessary in some cases to reduce or eliminate conflicting uses.

10. Area Specific Requirements:

The City will continue to evaluate, prioritize and install structural controls on developed areas or retrofitting existing structures. These structures shall be operated in a manner to reduce flood hazards and the discharge of pollutants to the MEP. In 2024, Drainage Ordinances were revised to require detention for all new developments and removed the requirement for Fee-in-lieu. Construction which is within the detention required areas are subject to applicable detention regulations, however, the option of fee in lieu can be proposed to OKC.

11. Analysis:

No analysis is required for the SWMP component.

SWMP Component 4: Construction Site Runoff

1. Program Components:

A. Continue the construction site runoff program through permitting, inspections, and enforcement that is consistent with the OKR10 General Permit for Construction Activities within the State of Oklahoma.

B. Continue the program for site plan review that incorporates consideration of potential water quality impacts, including erosion and sediment controls.

C. Continue the program to document monitoring, inspections, compliance, and enforcement actions for construction sites.

2. Definitions:

Accela **-** A type of civic applications software.

Agricultural stormwater runoff **-** Any stormwater runoff from orchards, cultivated crops, pastures, range lands, and other non-point source agricultural activities, but not discharges from concentrated animal feeding operations as defined in 40 CFR Section 122.23 or discharges from concentrated aquatic animal production facilities as defined in 40 CFR Section 122.24 and any addition or amendment thereto.

Aquatic Resource of Concern (ARC) **-** A waterbody corridor which contains habitat (including critical habitat) for federally listed (by the U.S. Fish and Wildlife Service) or state listed (by the Oklahoma Department of Wildlife Conservation) endangered or threatened aquatic species.

Best Management Practice (BMP) **-** The best available practices or devices that, when used singly or in combination, eliminate or reduce the contamination of surface and/or ground waters.

Certificate of Occupancy **–** A legal document that proves a property is safe and meets code and usage requirements.

Clean Water Act (CWA) **-** [33 U.S.C. § 1251 et seq.] (formerly referred to as the Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended, Pub. L. 95211, Pub. L. 95-576, Pub. L. 96-483 and Pub. L. 97-117.

Commercial Building Inspection (BLDC) **-** An inspection performed on a SWQ permitted commercial building or multi-family dwelling.

Compliance Order **-** An order associated with a NOV that identifies specific actions that must be completed by the permittee within a specified timeframe.

Erosion and sediment control site plan or erosion plan **–** A map/plan or series of maps and plans of best management practices or equivalent measures designed to control surface runoff and erosion and to retain sediment on a particular site or activity during the period in which land disturbance, fills and soil storage occur, and before final improvements are completed.

Final Stabilization Requirements - To plant, grow and establish a uniform perennial vegetative cover (evenly distributed, with no large bare areas) until a density of at least 70% of the native background cover has been established for all unpaved areas.

Grading plan - An approved plan for grading a site.

High Priority Construction Sites - are sites that:
A. are 40 acres or greater, or
B. discharge within one mile of a receiving waterbody which is identified by DEQ on the latest Section 303(d) list as impaired (i.e., not meeting water quality standards) for sediment and/or turbidity, (Note: OKC has applied a 1-mile buffer to 303(d) list impaired water bodies for sediment and/or turbidity in the PW Storm Water Quality Map service. This
layer used for screening purposes during plan and permit review) or
C. are located within an ARC, ORW, or waterbody with a TMDL or watershed plan. For discharges entering a separate storm sewer system prior to discharge, the first water of the state to which you discharge is the waterbody that receives the water from the storm sewer system. In such a case, you are considered to discharge to the impaired water if your site is located within one mile of the separate storm sewer system outfall that discharges to the impaired water. Separate storm sewer systems include both MS4s and non-MS4s. Separate storm sewers do not include combined sewer systems or sanitary sewer systems. You are not considered to discharge to an impaired water if your site or discharge point is located within one mile of an impaired receiving water body, but the point of discharge (or the separate storm sewer outfall if discharging to a separate storm sewer system) is outside the watershed of this waterbody.

Land Disturbing Activity - Any land change which may result in soil erosion from water and wind and the movement of sediments into community waters or onto lands and roadways within the community, including, but not limited to, clearing, dredging, grading, excavating, transporting, storing, stockpiling, mining, disposing, and filling of soil, earth materials, or land.

Land Disturbing Activity Permit - Permits establish the control measures necessary to reduce or eliminate the discharge of non-storm water from construction-sites, land disturbing activity, and related activities to the municipal separate storm sewer system (MS4) and where necessary, contain applicable water quality-based controls.

License Hold – is a status placed on a Business License, preventing licenses from receiving inspections, obtaining permits, or obtaining certificates of occupancy due to non-compliance or violations.

Limits of Disturbance - The physical boundary of the permitted activities.

Multi-family residential - An apartment building or other residential structure built for three or more family units, mobile home parks with three or more units or lots under common ownership, and condominiums of three or more units.

Municipal Separate Storm Sewer System (MS4) - The system of conveyances (including roads with drainage

systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) owned or regulated by the City and designed or used for collecting or conveying stormwater, and which is not used for collecting or conveying sewage.

National Pollutant Discharge Elimination System (NPDES) **-** A permit program that addresses water pollution by regulating point sources that discharge pollutants to waters of the United States (permits issued by EPA or by the State under authority delegated pursuant to 33 U.S.C. § 1342 (b)).

Notice of Intent (NOI) **-** A written notice by a discharger or potential discharger to the Director, or their designee, that the person wishes his discharge to be authorized under a general permit authorized by State law or regulation.

Notice of Termination (NOT) **-** A written notice by a discharger to the Director of the Department of Public Works, or their designee, that the project permitted has achieved 70% re-vegetation density of all bare areas and all soil disturbing activities are concluded, or the discharger is no longer the operator of the facility, and another operator has assumed responsibility and obtained permit coverage.

Notice of Violation (NOV) **–** A written notice issued notifying a party that a violation of Municipal Code and/or permit requirements has occurred. The violation is issued when a site requires extensive corrections, or when previously identified site issues have not been corrected and a progressive enforcement action needs to be initiated, or for any other major infraction. A reinspection is required and should occur the next business day after the NOV deadline.

OKR10 **–** The General Permit issued by Oklahoma Department of Environmental Quality Water Quality Division for stormwater discharges from construction activities within the state of Oklahoma.

OPDES **-** The Oklahoma Pollutant Discharge Elimination System.

Operator – a. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications (in most cases this is the owner of the site), or b. The party has day-to-day operational control of those activities at a project that are necessary to ensure compliance with a Stormwater Pollution Prevention Plan ("SWP3") for the site or other permit conditions (e.g., they are authorized to direct workers at a site to carry out activities specified by the SWP3 or comply with other permit conditions; in most cases this is the general contractor of the project).

Quality Assurance Program (QAP) – A program implemented by the Section Manager to provide relevant on the job training and employee review to ensure audits are being conducted in accordance with City policy, standard operating procedures, and with safety and efficiency.

Priority I Land Disturbing Activity Permit:

- Disturbs one (1) acre or more, OR
- Sites that are less than one (1) acre but are part of a larger plan of development which will disturb land equal to or greater than one (1) acre.

Priority II Land Disturbing Activity Permit:

- Disturbs less than one (1) acre that is not part of a larger plan of development.

Priority III Land Disturbing Activity Permit:

- Commercial or residential demolition less than one (1) acre.

Reinspection Fee/Corrections Needed - A status where the site requires several corrections, and/or BMPs may be beyond repair. Large amounts of sediment may have been deposited onto neighboring properties or into the MS4. Previously identified issues may not have been addressed. These site conditions warrant reinspection in 7-14 days to ensure the corrections have been made.

Storm Water Pollution Prevention Plan (SWPPP, SWP3)- a site-specific document developed to identify potential sources of storm water pollution at a land disturbance site. The SWPPP will outline the BMPs used to reduce pollutants in storm water discharges from the site.

Temporary Certificate of Occupancy (TCO) – A building permit status that allows a commercial structure to be used/occupied before the completion of the SWQ stabilization requirements required by the SWQ Land Disturbing Activity Permit. "Temporary" status will be used on the Final Inspection Report when a temporary CO is issued.

Total Maximum Daily Load ("TMDL") – The sum of the individual waste load allocations ("WLAs") for point sources, safety, reserves, and loads from nonpoint sources and natural background.

Waters of the State *(or water)* – all streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, irrigation systems, drainage systems, storm sewers and all other bodies or accumulations of water, surface and underground, natural or artificial, public or private, which are contained within, flow through, or border upon this state or any portion thereof, and shall include under all circumstances the waters of the United States which are contained within the boundaries of, flow through, or border upon this state or any portion thereof. Provided, waste treatment systems, including treatment ponds or lagoons designed to meet federal and state requirements other than cooling ponds as defined in the Clean Water Act or rules promulgated thereto and prior converted cropland are not waters of the state. (as defined in Oklahoma Statutes 27A O.S. § 1-1- 201).

Waters of the United States - All waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce including all waters which are subject to the ebb and flow of the tide; all interstate waters, including interstate wetlands; all other waters the use, degradation, or destruction of which would affect interstate or foreign commerce; all impoundments of waters otherwise defined as Waters of the United States under this definition; all tributaries of waters identified in this definition; all wetlands adjacent to waters identified in this definition; and any waters within the Federal definition of "Waters of the United States" at 40 CFR § 122.2; but not including any waste treatment systems, treatment ponds, or lagoons designed to meet the requirements of the Federal Clean Water Act.

Wetland - An area that is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

3. Ordinances:

Ordinance	Title	Language / Description
§16-9	Detention	Includes temporary sediment control detention and outlet control structures.
§16-18	Applicability of Provisions	(a) The floodprone area provisions of this chapter shall apply to all lands, tracts, parcels or lots in part or in whole which are traversed by, encompassed by or lying within 200 feet of the external boundaries of the delineated floodplain tor that watercourse as shown on the official floodplain maps, or an area deemed floodprone by the City Engineer.
§16-19	Floodprone Area	(2) Use restrictions in designated floodway. When floodway data has been provided by the Federal Insurance Administrator the following control measures will apply to that portion of the floodway outside of the dedicated channel as required by this regulation: (c) No structure, improvement, or development, temporary or permanent, shall be constructed in the floodway, nor shall any obstruction, fill or storage of goods, materials or equipment be permitted within the floodway.
§48-16	Permit Application Requirements and Procedures	(a) *Land disturbing activities—Requiring a permit.* No person may perform any land disturbing activity, or cause or allow any land disturbing activities on land owned or controlled by such person without first obtaining a valid site-specific permit. All disturbing activities must be performed in accordance with this chapter. (b) *Land disturbing activities—Not requiring a permit.* However, the following land disturbing activities shall not require a permit: (1) such minor land disturbing activities as home gardens and individual home landscaping, home repairs, home maintenance work, and other related activities which result in minor soil erosion, (2) the construction of single-family residences when built separately on lots less than one acre not within a subdivision, and have been issued building permits; provided that excavation is limited to trenches for the foundation, basements, service and sewer connections, and minor grading for driveways, yard areas and sidewalks, with no offsite discharge of pollutants; (3) individual service and sewer connections for single-or two-family residences; (4) agricultural practices involving the establishment, cultivation or harvesting of products of the field or orchard, preparing and planting of pasture land, forestry land management practices including harvesting, farm ponds, dairy operations, and livestock and poultry management practices, and the construction of farm buildings; (5) installation, maintenance and repair of any underground public utility lines when such activity occurs on an existing hard-surface road, street or sidewalk, provided the activity maintains pollution

Ordinance	Title	Language / Description
		control and is confined to the area of the road, street or sidewalk which is hard-surfaced and a street, curb, gutter, or sidewalk permit has been obtained; and (6) construction, repair or rebuilding of tracks of a railroad company. However, the persons conducting these permit excluded land disturbing activities shall remain responsible for otherwise conducting those activities in accordance with all other provisions of this article and other applicable laws including responsibility for controlling sedimentation and runoff. (c) *Fees.* There is hereby levied a schedule of fees for all permit services and requirements. The schedule of such fees shall be as established in Chapter 60, the General Schedule of Fees. Permit fees will be submitted to the Storm Water Quality Division of the Public Works Department and checks shall be payable to the City Treasurer. (d) *Permit duration.* (1) The permit shall be for a term of one year subject to the conditions set forth in this article and on the permit. (2) Should the permittee need to extend the permit beyond its original one-year term, then prior to the expiration of the current permit term, the permittee must apply for renewal of the permit and must pay a renewal fee. Permits may be renewed for an additional one-year term subject to the conditions set forth in this article and on the permit. (3) Until the permitted activity is completed and the permit site meets City standards, permittee must maintain a current permit by: (A) complying with the terms of the permit and this article; and (B) annually before the anniversary date of the issuance of the original permit, apply for and procure a renewal of the permit. (4) Failure to timely renew a permit required hereunder will result in late fees. (5) Permittee must pay all fees as a condition of completion of the permitted project, including: (A) permit renewal; and (B) late fees; and (C) re-inspection fees. (e) *Application.* The permittee must submit an application including all required forms, maps, plans, and schedules to the Director or designee for approval prior to the issuance of the permit. The

Ordinance	Title	Language / Description
		permittee must resubmit such application to continue or renew the permit. (f) *Commencement and continuation of permit activities and permit expiration.* (1) If the work described in any permit issued pursuant to this article has not begun within six months from the date of issuance thereof, said permit will expire. (2) If permittee has not so commenced, then the permit shall expire and no permit activities may be performed on that site until the Director or designee authorizes a new permit. (3) Whenever a permit expires, the permittee must resubmit all required application forms, maps, plans, and schedules to the Director or designee except where an item to be resubmitted is expressly waived by the Director or designee in writing. In addition, the permittee must pay all required fees. (g) *Maintenance period.* (1) Stabilization measures shall be initiated within 14 days after the construction activity in that portion of the site has temporarily or permanently ceased unless earth disturbing activities on a portion of the site will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of the site. Stabilization measures must be in accordance with standards approved by the Director or designee. Permittee must diligently continue and maintain such stabilization measures until a Notice of Termination has been accepted by the Director or designee (2) Upon completion of construction activities, permittee must stabilize the entire site by planting, growing and establishing a uniform perennial vegetative cover until a density of at least 70 percent of the native background cover has been established for all unpaved areas. When the site has been finally stabilized, permittee must submit a signed Notice of Termination to the Director or designee for review. (3) The permittee must maintain the site, the stabilization controls, and erosion controls in a safe condition and in compliance with City ordinances until final inspection has been completed and Notice of Termination has been accepted by the Director or designee. (h) *Inspections.* Should permittee request an inspection and should permittee or the site be unprepared for such inspection or should

Ordinance	Title	Language / Description
		the permittee or the site fail such inspection, then permittee must pay a re-inspection fee and request an additional inspection. (i) *Enforcement.* (1) It is a violation for any person to clear, grade, fill, excavate, store, mine, dispose of soil and earth materials, perform any other land-disturbing or land-filling activity, or cause or allow any such activities without a current valid site-specific permit therefore. (2) It is a violation for any property owner to authorize any person to clear, grade, fill, excavate, store, mine, dispose of soil and earth materials, perform any other land-disturbing or land-filling activity, or cause or allow any such activities without a current valid site-specific permit therefore. (3) In addition, if permittee allows a permit to expire or fails to timely procure renewal of a permit, then the Director or designee may suspend any soil disturbing or construction activities at the site by permittee and its successors, contractors, and agents; however, such suspension will not relieve the permittee's obligations to maintain the site in a safe condition and in compliance with City ordinances. (4) If the Director or designee determines that permittee has failed to comply with any conditions of the permit, then the Director or designee may suspend any soil disturbing or construction activities at the site by permittee and its successors, contractors, and agents; however, such suspension will not relieve the permittee's obligations to maintain the site in a safe condition and in compliance with City ordinances.
§48-17	Implementation and Enforcement Procedures	(a) *Issuance of permits.* The Director shall issue a permit upon notice of a grading plan and an erosion and sediment control site plan on record. A permit may be issued subject to the following conditions: (1) the permittee shall maintain a copy of the permit, NPDES permit where required, approved plans and reports required under DEQ (GP-0005, Part II, B) on the work site and available for inspection during all working hours; and (2) the permittee shall, at all times, be in conformity with approved grading plan and erosion and sediment control plan.

Ordinance	Title	Language / Description
		(b) *Implementation of permits-permittee's duties. U*nless this requirement is waived by the Director, the permittee shall notify the Manager within 72 hours of: (1) the beginning of the permitted activity; (2) readiness of the site for an interim inspection, including but not limited to the installation of all interim erosion control measures; (3) the completion of rough grading; (4) the completion of finished grading; (5) readiness of the site for final inspection, including, but not limited to, finished grading, installation of drainage devices and final erosion control measures. (c) *Implementation of permits.* (1) the Director shall review all reports submitted by permittee. The Director shall have the authority to require permittee to modify the grading plan, erosion and sediment control plan, control site plans, and maintenance methods and schedules. The Director shall notify the permittee in writing of the requirement and specify a reasonable period of time within which permittee must comply. All modifications of such reports shall be subject to the Director's approval. (2) the Director or representative may inspect the site at any of the following times under provision of DEQ (GP-005, Part V, N): (a) upon receipt of a report by permittee; (b) to verify completion of modifications required; (c) during and following any rainfall, or (d) at any other time, at the Director's discretion. (3) the Manager shall inspect the site upon completion of interim erosion control measures, pursuant to Section 57-161(k). (4) the Manager shall inspect the site upon completion of final erosion control measures, pursuant to Section 57-161(n). (5) finalizing permit: (a) where permanent improvements have been constructed, the permit shall be made final upon approval of the final inspection by the Manager. (b) where no improvements are planned, the permit will continue in duration for one calendar year beyond the approval of the final inspection by the Manager.

Ordinance	Title	Language / Description
		(j) where no improvements are planned, the Manager shall visit the site during the maintenance period after final inspection. Such maintenance period shall be for a reasonable time established by the Manager. The Manager shall note deficiencies in the final erosion control measures and report same in writing to permittee and specify a reasonable period of time within which permittee must comply. (ii) after the maintenance period has elapsed, and the permittee has performed all maintenance as required by the Manager, the Manager shall finalize the permit and notify the permittee of the same in writing. (c) *Suspension or revocation of permit.* The Manager shall first have resorted to the procedures set forth in this subsection before any other enforcement procedure set forth in this article. (1) the Manager may suspend the permit and issue a stop work order, and permittee shall cease all work on the work site, except work necessary to remedy the cause of the suspension, upon notification of such suspension when: (a) the Manager determines that the permit was issued in error or on the basis of incorrect information supplied, or in violation of any ordinance or regulation or the provisions of this article; (b) permittee fails to submit reports when required under this article; (c) inspections by the Manager under this article reveals that the work or the work site: (i) is not in compliance with the conditions set forth in this article; (ii) is not in conformity with the grading plan or erosion control plan as approved or as modified under this article; or (iii) is not in compliance with an order to modify this article. (2) if permittee fails or refuses to cease work, as required under this article, after suspension of the permit and receipt of a stop work order and notification thereof, the Manager may revoke the permit and issue a stop work order, and, if a stop work order is issued, the permittee shall cease work. (3) the Manager may reinstate a suspended permit upon permittee's correction of the cause of the suspension. (4) the Manager may not reinstate a revoked permit.
§48-18	Penalty	A penalty is hereby established whereby any person who shall violate any provision of this chapter shall be deemed to be guilty of a Class “a” offense. For any second or subsequent offense and upon proof of conviction, said person shall be guilty of a Class “b” offense. Any

Ordinance	Title	Language / Description
		person who is required by any provision of this chapter or by any other law to obtain a permit prior to engaging in conduct that is regulated by this chapter, and who fails or neglects to obtain such a permit upon request by a City official, shall be guilty of a Class "b" offense. Each day on which a violation shall occur or continue to occur shall be deemed a separate offense. Upon written certification by the Director of the violation of any section of this article, the Municipal Councilor is authorized to petition any court of competent jurisdiction for an injunction to enjoin the continuance of such violation. This remedy shall be cumulative of and to all other enforcement powers granted to the City by the terms of its charter or any ordinance, or by the laws of the State. If any provisions of this article or the application thereof to any person or circumstance shall be held invalid, the remainder of this article and the application of such provision to other persons and circumstances shall nevertheless be valid, and the City Council hereby declares that this ordinance would have been enacted without such invalid provision.
§48-19	General Land Disturbing Activity	All land disturbing activities shall be in conjunction with and permitted under the division of this article. Application must be applied for under the "Oklahoma General OPDES Permit for Stormwater Discharged Associated with Construction Activity." If a General OPDES Permit is applied for a copy of the Notice of Intent (NOI), Stormwater Pollution Prevention Plan (SWPPP), and Erosion Control Site Plan (ECSP) must be sent to the Manager of the Stormwater Quality Management Division and a permit fee must be paid.
§ 48-20	Land Disturbing Activity Regulated	(a) It shall be unlawful for any person to conduct, or to permit another person to conduct any land disturbing activity upon land without a permit issued under this article. Upon request, any owner of the land and the operator of any land disturbing activity shall provide a copy of the permit and personal identification to the Manager or the Manager's representatives. (b) *Best Management Practices for Land Disturbing Activities.* The minimum standards for controlling erosion and sedimentation from land disturbing activities shall be set forth in the "Best Management Practices Manual," as adopted and amended from time to time by the Director or designee. A copy of same shall be maintained on file in the offices of the Director, the City Engineer, and the Stormwater Quality Manager. A copy of same shall be maintained in the office of the City Clerk and may be viewed and copied in accordance with the provisions of this Code.
§ 48-21	Land Disturbing Permit	Except as provided in Section 48-16(b) above, no person shall conduct, allow or permit land disturbing activity, whether temporary or

Ordinance	Title	Language / Description
		permanent, on any premises within The City of Oklahoma City until a land disturbing permit has been issued by the Manager allowing such activity pursuant to the provisions of this article. Such permit shall be available for inspection by the Manager or Manager's representative on the job site at all times during which land disturbing activities are in progress. Such permit shall be required in addition to any building permit or other permit required by the Code for the site.
§ 48-22	Permit Application	(a) Any application for the issuance of a land disturbing permit under this article shall include the Notice of Intent (NOI), a copy of a Stormwater Pollution Prevention Plan (SWPPP), and an Erosion Control Site Plan (ECSP). (b) At any time the Manager determines that the NOI, SWPPP, or ECSP does not comply with the provisions of this article, the Manager shall notify the applicant of all deficiencies within said plan.
§ 48-23	Sediment and Erosion Control	No land disturbing activity shall be conducted within the City except in such manner that: (a) stripping of vegetation, re-grading and other development activities shall be conducted so as to minimize erosion. Clearing and grubbing must be held to the minimum necessary for grading and equipment operation. Pre-construction vegetative ground cover shall not be destroyed, removed or disturbed more than 20 calendar days prior to grading or earth moving. Construction must be sequenced to minimize the exposure time of cleared surface area; (b) property owners shall be responsible, upon completion of land disturbing activities, for leaving slopes so that they will not erode. Such methods should include re-vegetation, sodding, mulching, rip-rapping, or guniting. Regardless of the method used, the objective will be to leave the site erosion-free and maintenance-free as practicable; (c) whenever feasible, natural vegetation shall be retained, protected, and supplemented; (d) stabilization measures shall be initiated within 14 days after the construction activity in that portion of the site has temporarily or permanently ceased unless earth disturbing activities on a portion of the site will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of the site. Stabilization measures must be in accordance with standards approved by the Director or designee. Permittee must diligently continue and maintain such stabilization measures until a Notice of Termination has been accepted by the Director or designee;

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		(e) a permanent vegetative cover shall be established on disturbed areas not otherwise permanently stabilized; (f) to the extent necessary, sediment in runoff water must be trapped by the use of debris basins, sediment basins, silt traps or similar measures until the disturbed area is stabilized; (g) neighboring persons and property shall be protected from damage or loss resulting from excessive stormwater runoff, soil erosion or deposition upon private or public property or public streets of water transported silt and debris. Adjacent property owners shall be protected from land devaluation due to exposed bare banks; (h) controlled construction entrance/exit shall be maintained in a condition that will prevent tracking or flowing of sediment onto the public right-of-way; (i) erosion and sediment control measures must be in place and functional before earth moving operations begin and must be constructed and maintained throughout the construction period. Temporary measures may be removed at the beginning of the workday, but must be replaced at the end of the workday; (j) structural controls shall be designed and maintained as required to prevent pollution. All surface water flowing toward the construction area shall, to the extent practicable, be diverted by using berms, channels, or sediment traps as necessary. Erosion and sediment control measures shall be designed according to the size and slope of disturbed or drainage areas, to detain runoff and trap sediment. Discharges from sediment basins and traps must be through a pipe or lined channel so that the discharge does not cause erosion. Muddy water to be pumped from excavation and work areas must be held in settling basins or treated by filtration prior to its discharge into surface waters; (k) inspections will be conducted in accordance with one of the two schedules listed below. Permittee must specify an inspection schedule in the Stormwater Pollution Prevention Plan (SWPPP) which schedule will be either: at least once every seven calendar days, or at least once every 14 calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater. (1) Inspection frequency may be reduced to at least once every month if: (A) the entire site is temporarily stabilized; (B) runoff is unlikely due to winter conditions (e.g. Site is covered with snow, ice, or ground is frozen); or (C) construction is occurring during seasonal arid periods in arid areas and semi-arid areas.

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		(2) The permittee shall maintain record of such inspections and repairs for a period of three years after the Notice of Termination (NOT) has been accepted by the Director or designee; (l) a specific individual shall be designated to be responsible for erosion and sediment controls on each site; (m) there shall be no distinctly visible floating scum, oil or other matter contained in the stormwater discharge. The stormwater discharge must not cause an objectionable color contrast in the receiving water. The stormwater discharge must result in no materials in concentrations sufficient to be hazardous or otherwise detrimental to humans, livestock, wildlife, plant life, or fish and aquatic life in the receiving stream; and (n) when the land disturbing activity is finished and stable, perennial vegetation has been established on all remaining exposed soil, the permittee shall notify the Manager of these facts and submit a Notice of Termination (NOT) of the permit issued under this section. The Manager shall then provide a final inspection of the site within 20 days after receipt of such notice, and, when advisable, may require additional measures to stabilize the soil and prevent erosion. If such requirements are given by letter, the permittee shall continue to be covered by this provision of this section, until a request for termination of the permit has been accepted by the Manager. (o) There is a re-inspection fee of $83.75 through June 30, 2025 and $100 July 1, 2025 and thereafter, for each additional trip or inspection. The re-inspection fee shall apply to the following inspections: (1) Should the applicant request an inspection and the applicant, facility, project, and/or property not be ready for said inspection on the date of said inspection then the re-inspection fee shall be due for each subsequent inspection until the applicant, facility, project, or property passes inspection; or (2) Upon an inspection for any other purpose, should the applicant, facility, project, and/or property fail to meet established standards, then the re-inspection fee shall be due for each subsequent inspection until the applicant, facility, project, or property passes inspection; or (3) Upon an inspection within a corrective measure or action is directed by the inspector, then the re-inspection fee shall be due for each subsequent inspection until the correction measure or action and the facility, project, or property passes inspection.

Ordinance	Title	Language / Description
§57-147	New Facility Permits	(a) All new "utilities", "industrial", "commercial", "institutional", and "multi-family residential" facilities, and all residential subdivisions shall obtain a Construction Stormwater Discharge Permit prior to construction of the facility. This permit shall be required in addition to any permits required by the State or elsewhere in this Code for stormwater discharges associated with industrial activity or for stormwater discharges associated with construction activity or land disturbing activity. (b) The minimum standards for issuance of a Construction Stormwater Discharge Permit shall be a pollution prevention plan, and either an approved OPDES permit from the Oklahoma Department of Environmental Quality for stormwater discharges associated with construction activity or a land disturbing activity permit. The application for a new facility permit shall include: (1) if the facility is to be covered under the Oklahoma Department of Environmental Quality OPDES Permit for Stormwater Discharges Associated with Industrial Activity, an OPDES Permit for Stormwater Discharges Associated with Construction Activity, or an Industrial OPDES permit, the owner or developer shall obtain such permits or file the Notice of Intent (NOI) and shall submit copies to the Manager; (2) the application for a Construction Stormwater Discharge Permit shall demonstrate how the owner or developer will insure that post-development off-site discharge rates shall not exceed the pre-development discharge rates; (3) unless otherwise specified, off-site discharges for the existing and developed conditions shall be computed using the 25-year return frequency storm, and Soil Conservation Service (SCS Type II) design. The design shall also show an evaluation of the result of the 100-year return frequency storm; (4) to reduce the "first flush" pollutant load, facilities that serve an area with ten or more disturbed acres shall be designed to capture the design storm in a detention or retention basin providing 3,600 cubic feet of storage per acre drained. Where providing 3,600 cubic feet of storage per acre drained is not attainable, small sediment basins of equivalent total volume should be used; (5) detention or retention ponds shall have at least one foot of freeboard above the design storm, provide a paved emergency overflow, and the maximum level in the pond to be one foot below any finished floor level of the facility. Ponds shall also have permanent vehicle access for maintenance purposes. A

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		plan for the routine maintenance of the ponds will be incorporated in the Pollution Prevention Plan; (6) constructed wetlands may be used to deal with the "first flush" pollutant load instead of the pond of 3,600 cubic feet per acre storage. Grit trap and oil separators are to be installed upstream of the wetland to prevent contamination; (7) a Pollution Prevention Plan shall be prepared for the facility. This plan shall demonstrate how the facility will collect, control, and treat stormwater so as to control the quantity and quality of stormwater leaving the site. The plan shall include, as necessary, structural controls and non-structural Best Management Practices (BMPs) adequate to prevent the violation of any water quality standard, and shall meet the provisions of Sections 301 and 402 of the Federal Water Pollution Control Act (BCT and BAT treatment requirements). (c) The Pollution Prevention Plan must be reviewed by the Manager prior to the issuance of a Construction Permit. (d) A Notice of Termination (NOT) must be received for a final inspection or a Certificate of Occupancy by Stormwater Quality Management.
§57-148	Permit Application Fees	Ordinance provides the permit application fees and re-inspection fees.
§57-149	Maintenance and Submittal of Records	Appropriate proof and records of compliance with the provisions of the Oklahoma City Storm Water Discharge Permit or Land Disturbing Permit will be maintained in the office of the designated contact person and be made available for review at any time by the Manager. A notification for a permit re-issuance request will be sent yearly on the anniversary date of the permit to the Manager.
§57-150	Transfer of Permit	An Oklahoma City Industrial, Construction Stormwater Discharge Permit or Land Disturbing Permit may be transferred only upon the filing of an amendment to the permit application or an amended or restated application containing all changes from the original application providing there are no changes in the operation of the facility which may affect the quantity or quality of the stormwater runoff. If there are to be any changes in the operation of the facility which may affect the quantity or quality of stormwater runoff, then the new owner or operator shall re-submit, by NOI, for a Stormwater Discharge Permit or Land Disturbing Permit prior to the beginning of operation of the facility. The filing of an amended or restated application shall be treated as an interim permit allowing the continued operation of the facility pending review of the application by the Manager, which shall remain in force until the application shall be approved or denied by the Manager.

Ordinance	Title	Language / Description
§57-151	Signatory Requirements	(a) All applications and reports required by this article to be submitted to the Manager shall be signed as follows: (1) responsible party (e.g., developer, owner, contractor) with operational control over the project specifications and daily operations. (2) corporation: a president or secretary, treasurer, or vice-president of the corporation, as authorized, and in charge of a principal business function, or any other person as authorized to perform similar policy-or decision making functions for the corporation; (3) partnership or sole proprietorship by a general partner or the proprietor, respectively; (4) municipality, State, Federal, or other public facility: by either a principal executive officer or the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency; (5) other legal entity recognized under Oklahoma law in accordance with such law. Any person signing any document above shall make the following certification: "I certify under the penalty of law that I have personally examined and am familiar with the information submitted in the attached document; and based on my inquiry of those individuals, immediately responsible for obtaining the information. I believe the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and civil penalty."
§57-177	Unauthorized Discharge a Public Nuisance	(b) No person shall conduct, allow or permit the discharge of stormwater in any manner in violation of this article or of any condition of a permit issued pursuant to this article or a stormwater discharge permit issued by the State. Such discharge is hereby declared a public nuisance and must be corrected or abated by any owner and by any operator.
§57-178	Illicit Discharge and Illegal Dumping	(a) No person shall conduct, allow or permit the direct or indirect discharge of any material other than stormwater into the MS4, the Community Waters or Waters of the State. The following direct or indirect discharges are examples of prohibited discharges: (1) sewage dumping or dumping of sewage sludge; (2) chlorinated swimming pool discharge; (3) discharge of any polluted household wastewater, such as but not limited to laundry washwater and dishwater, except to a sanitary sewer or septic system; (4) leaking sanitary sewers and connections; (5) leaking water lines;

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		(6) commercial, industrial or non-exempt public vehicle wash or power wash discharge and commercial, industrial or non-exempt cosmetic cleaning; (7) garbage, rubbish, or sanitary waste disposal; (8) dead animals or animal fecal waste; (9) non-stormwater discharges, except pursuant to a permit issued by the State and the City; (10) dredged or spoil material; (11) solid waste and commercial or industrial process by-products; (12) chemical waste; and (13) wrecked or discarded vehicles, appliances or equipment.
§57-181	Administrative Enforcement Remedies	(a) *Notification of violation.* Whenever the Manager finds that any permittee or any person discharging stormwater has violated or is violating this article, or a stormwater permit or order issued hereunder, the Manager or his designee may serve upon said person or permittee written notice of the violation. Within ten calendar days of the receipt date of this notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted to the Manager. Submission of this plan in no way relieves the discharger of liability or criminal prosecution for any violations occurring before or after receipt of the notice of violation. (b) *Consent orders.* The Manager is hereby empowered to enter into consent orders, assurances of voluntary compliance, or other similar documents establishing an agreement with the person responsible for the compliance and for the noncompliance. Such orders will include specific action to be taken by the discharger, operator and owner to correct the noncompliance within a time period also specified by the order. Consent orders shall have the same force and effect as administrative orders issued pursuant to paragraph (d) below. (c) *Show cause hearing.* The Manager may order any person who causes or contributes to violation of this article or Stormwater permit or order issued hereunder, to show cause why a proposed enforcement action should not be taken. Notice shall be served specifying the time and place for the meeting, the proposed enforcement action and the reasons for such action, and a request that the violator show cause why this proposed enforcement action should not be taken. The notice of the meeting shall be served personally or by registered or certified mail (return receipt requested) at least ten calendar days prior to the hearing. Such notice may be served on any individual or the individual or the

Ordinance	Title	Language / Description
		principal executive, general partner or manager of any legal entity or person of legal age at the office or business address of the permittee. (d) *Compliance order.* When the Manager finds that any person has violated or continues to violate this article or a permit or order issued thereunder, the Manager may issue an order to the violator directing that, following a specified time period, adequate structures or devices be installed or procedures implemented and properly operated, supervised and administrated. Orders may also contain such other requirements as might be reasonably necessary and appropriate to address the noncompliance, including the construction of appropriate structures, installation of devices, self-monitoring, and best management practices. (e) *Cease and desist orders.* Notwithstanding any other notice, order or administrative process provided by this section, when the Manager finds that any person has violated or continues to violate this article or any permit or order issued hereunder, and also finds that such violation may cause an impairment of water quality or that a permit is required and has not been issued, the Manager may issue an order to cease and desist all such violations and direct those persons in noncompliance to: (1) comply forthwith; or (2) take such appropriate remedial or preventive action as may be needed to properly address a continuing or threatened violation, including halting operations or terminating the discharge or both. (f) *Appeal.* A person receiving an order may file a written notice of appeal with the Director and Manager who issued it, no later than the 10th calendar day after receipt of the order. Such notice shall include an explanation as to why the person believes the enforcement action should not be taken. A person receiving a cease and desist order may file a written notice of appeal with the Director and Manager who issued it and obtain relief from such order upon a showing that the alleged violation will not cause an impairment of water quality or that a permit is not required. A hearing on the appeal will be scheduled within a reasonable time after receipt of the notice of appeal and the required explanation. All notices of appeal shall be signed by the owner or operator of the premises or activities in controversy and shall include name and address of the person filing the notice of appeal. Notice of hearing on the appeal may be served by facsimile or first-class mail at the number or address given in the written notice of appeal.

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§57-182	Unlawful Acts, Misdemeanor	It shall be unlawful for any person to: (a) violate any provision of this article; (b) violate the provisions of any permit issued pursuant to this article; (c) fail or refuse to comply with any lawful notice to abate issued by the Manager within the time specified by such notice; or (d) violate any lawful order of Stormwater Quality Management or fail to comply with such an order within the time allowed by such order. Any person who commits any act declared unlawful or fails to perform any act required by or under this article or otherwise violates any provision of this article shall be guilty of a Class "a" offense against the City. In addition, each and every day on which a violation shall occur or continue to occur shall be deemed a separate offense. For any second or subsequent offense and upon proof of conviction, said person shall be guilty of a Class "b" offense against the City. For any offense that occurs or is allowed to exist for two consecutive calendar days, each responsible person shall be guilty of a Class "b" offense. Violation of a cease and desist order shall be a Class "b" offense.
§57-201	Landscape Maintenance	(a) No person shall dump, spill, leak, pump, pour, emit, empty, discharge, leach, dispose, or otherwise introduce or cause, allow, or permit to be introduced any substances into the MS4 (Municipal Separate Storm Sewer System) other than stormwater, including without limitation the following common substances: (1) garbage; (2) rubbish; (3) yard waste; (4) sediment; (5) floatable materials.

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #48	Land Disturbance Inspections	6/18/2024
SOP #60	Plan Review and Routing	10/9/2024
SOP #85	Issuing a Land Disturbing Activity Permit	6/28/2024
SOP #86	Terminating a Land Disturbing Activity Permit	10/9/2024
SOP #89	Demolition Permit Authorization Form	6/28/2024

5. Resources:

Administration of the Construction Site Runoff Program components for OKC is provided by the Public Works Department, Storm Water Quality Management Division. The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Storm Water Permitting Program Account provides the funding for the Industrial and High-Risk Runoff Program and the Construction Site Runoff Program. The FY24/25 budget for this account is $1,831,348.00.

Classification Title	Range	# of Personnel
Environmental Protection Superintendent	519	1
Assistant Environmental Protection Superintendent	517	1
Environmental Unit Supervisor	513	1
Environmental Unit Specialist	511 (NE)	1
Environmental Technician	510 (NE)	6

6. General Program Description:

The Construction Site Runoff Program consists of permit application and plan review, inspections, complaint response, data storage and management, enforcement actions, operator education, and reporting. The OKC Best Management Practices Manual for Construction and Land Disturbing Activities is available online for engineers, contractors, builders, and the public. Six (6) Environmental Technicians are supervised by one (1) Environmental Unit Supervisor and one (1) Environmental Unit Specialist. OKC issues storm water quality discharge permits prior to the commencement of land disturbing activity, construction of new utilities; industrial, commercial or institutional facilities; residential subdivisions; and the demolition of structures. Permit fees are $88.75 each year (through June 30, 2025, and $100.00 beginning July 1, 2025, and thereafter) for the life of the permit. Project activities spanning multiple years are required to remit an additional permit fee of $88.75 (through June 30, 2025, and $100.00 beginning July 1, 2025, and thereafter) at the anniversary of the date of permit issuance. Late fees of $15.00 are applied for each month past the expiration date. The owner/operator is responsible for developing, implementing, adjusting and maintaining a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP is a living document which provides the framework, staff, structural and non-structural controls with which sediment and other construction related pollutants will be controlled at the site. This document should be readily available for OKC inspectors to review during routine audits or upon request. Upon completion of the permitted activity, owner/operator will notify the Manager and submit a Notice of Termination (NOT). A Notice of Termination (NOT) must be received for a final inspection or a Certificate of Occupancy by Stormwater Quality Management. OKC will inspect the location to ensure that the following criteria are met:

- Site stabilization of exposed soil to a density of 70% of uniform perennial vegetative cover without large bare areas.
- All storm water discharges from project activities have been eliminated.
- Temporary erosion and sediment control measures have been removed.
- A change in owner/operator status has been properly transferred.

Upon final inspection, if conditions are met, a Certificate of Occupancy will be issued and the permit closed. If

conditions are not met, a 30-day Temporary Certificate of Occupancy may be issued, any additional inspections will be charged a $83.75 (through June 30, 2025, and $100.00 beginning July 1, 2025, and thereafter) re-inspection fee.

Task	Type	Staffing / Strategic Goal	Comments
Permitting	Land Disturbing Activity Permit	Administrative Staff (4); Environmental Unit Specialist (1); Environmental Unit Supervisor (1)	Required documentation: Notice of Intent; Storm Water Pollution Prevention Plan; Erosion Control Site Plan; Permit Application Fees; and NOT.
BMP Manual	OKC Construction and Land Disturbing BMPs Manual	Administrative Staff (2); Environmental Protection Superintendent (1); Assistant Environmental Protection Superintendent (1); Environmental Unit Supervisor (1); Environmental Unit Specialist (1)	The OKC BMP Manual for Construction and Land Disturbing Activities is updated on an as-needed basis. The manual can be accessed at the OKC website.
City Inspections	Land Disturbing / Construction	Environmental Technician (6); Environmental Unit Specialist (1) Environmental Unit Supervisor (1)	Inspection target: to inspect permitted Priority 1 and Priority 2 sites monthly, and Priority 3 sites quarterly.
Complaint Response	Sediment or Construction Related Complaints	Environmental Technician (6); Administrative Staff (2); Environmental Unit Specialist (1); Environmental Unit Supervisor (1); Assistant Environmental Protection Superintendent (1); Environmental Protection Superintendent (1)	Filed complaints may originate from several sources: OKC Action Center, field observation, City staff/City project, and resident contact.

Task	Type	Staffing / Strategic Goal	Comments
Data	Data Entry / Data Storage	Administrative Staff (4); Environmental Technicians (6); Environmental Unit Specialist (1); Environmental Unit Supervisor (1)	Database, Various Spreadsheets, Other media (site photographs, scanned images). Accela Automation Permitting Database is the primary permit/inspection database, secondary data storage would be Land Permitting Workflow Database. Photographs and other data sources are housed on the OKC network.
Enforcement	Code Enforcement	Environmental Technician (6); Environmental Unit Specialist (1); Environmental Unit Supervisor (1); Administrative Staff (2); Assistant Environmental Protection Superintendent (1); Environmental Protection Superintendent (1); OKC Municipal Courts.	Notice of Violation; Stop Work Order; Cease and Desist; Compliance Order; Show Cause Hearing; Verbal Communication; Re-inspection Fees; Verbal Warnings; License Holds; Affidavit of Probable Cause.
Education and Outreach	Workshop(s) / Training Events	Environmental Protection Superintendent (1); Assistant Environmental Protection Superintendent (1); Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technician (6).	OKC will conduct at least one workshop or online training annually. Workshops/online trainings may be combined with other venues such as the Region 6 EPA MS4 Conference, State or other local municipal venues.
Reports	Oklahoma Department of Environmental Quality (ODEQ)	Environmental Protection Superintendent (1); Assistant	Section results are reported annually to the ODEQ in the OKC MS4 Annual Report.

Task	Type	Staffing / Strategic Goal	Comments
	Annual Report	Environmental Protection Superintendent (1); Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Administrative Staff (1).	
Records Retention	All	Environmental Protection Superintendent (1); Assistant Environmental Protection Superintendent (1); Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Administrative Staff (1)	Records are stored digitally on a server. Physical files are kept at a minimum of 3 years and are migrated to digital form where they are stored indefinitely on a server.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Education and Outreach (External)	Number of Workshops	Number /Year	1 Workshop or Multiple Online Training Events/Year
Education and Outreach (External)	Number of Workshop Participants	# Participants / Year	80 participants / Year. Participants may include, but are not limited to engineers, builders, developers, pre-qualified contractors, internal staff, citizens, stakeholders, and representatives of government agencies. Reported Annually
Education and Outreach	Number of special	# Distributed / Year	Minimum 2 annually or

Task	Metric	Reported Figure	Goal / Reporting
(External)	notifications / e-newsletters distributed		as needed Reported Annually
Education and Outreach (Internal)	Number of Continuing Education Hours related to Sediment and Erosion Control	# Hours / Year	6 Hours / Year (per technician). Reported Annually
Permitting	Number of Permits Issued (Land Disturbing Activity)	# Permits / Year	No goal established for this task (based on demand). Reported Annually
Permitting	Number of Construction Notice of Termination (Construction and Land Disturbing)	# NOT / Year	No goal established for this task (based on demand). Reported Annually
Inspections	Number of Site Inspections	# Construction or Land Disturbing Permit Inspections / Year	Target to inspect permitted Priority 1 and Priority 2 sites monthly, and Priority 3 sites quarterly (based on demand). Reported Annually
Inspections	Number of Re-inspections	# Re-inspections / Year	No goal established for this task (based on demand). Reported Annually
Inspections	Amount of Re-inspection Fees Collected	Total Monetary Figure	No goal established for this task (based on demand). Reported Annually
Complaint Response	Number of Construction Related Complaint Response	# Complaint Response / Year	No goal established for this task (based on demand). Reported Annually
Enforcement	Number of Enforcement Remedies Documents Issued (NOVs, Compliance Orders, Cease and Desists, Show Cause Hearings, Consent Order, License Holds, Affidavit of Probable Cause)	# Enforcement Remedies Documents Issued / Year	No goal established for this task (based on demand). Reported Annually

8. Narrative Goals:

Provide plan review, permitting, inspection services, and permit related communications to applicable land disturbing activity sites in OKC to comply with local municipal code and the OPDES General Permit OKR10. Plan and permit review incorporates consideration of potential water quality impacts and are reviewed within 30 days of submittal. Provide response and resolution to sediment related complaints, which impact the OKC MS4 or other waterways through Municipal Code enforcement remedies. Review and improve existing sediment and erosion control BMP detail sheets and related materials as BMP technologies advance. Provide that land disturbing sites are controlling their storm water discharges to the maximum extent practicable. Review existing land disturbing activity municipal code and recommend changes to OKC City Council which improve the quality of applicable discharges. Provide subject related education to stakeholders, developers, contractors, engineers and builders.

Ordinance Review

OKC ordinances related to erosion and sediment control will be reviewed once each permit term. Generally, this review will be conducted during the first two years of the permit. Approval is subject to management review and City Council approval. Efforts will be made to make applicable changes during the permit term of that review. Notifications to staff, engineers, developers, contractors or other stakeholders will be conducted through memorandums, letters, and addendums to permit packages, workshops, online training events, stakeholder meetings or other forms of communication. All notifications of ordinance changes or changes related to area-specific requirements will be tracked and reported annually.

Quality Assurance Program (QAP)

QAP is an internal program to ensure field inspections, inspection audit documentation, and associated activity are being conducted in a safe, efficient and consistent manner. The Supervisor or designee conduct inspections/desktop reviews with Environmental Technicians to provide interactive audit and training experiences with the technician. The goal of the QAP is to ensure OKC municipal code is being applied consistently, and to ensure proper documentation and communication. Results are documented and discussed with the technician to correct any deficiencies and promote standardization. All QAP documentation will be tracked and the number of QAP's will be reported annually.

Inspector Areas

SWQ inspectors are assigned to designated areas for normal auditing purposes. Special assignments (such as TMDL areas) may be assigned outside of a designated area. Construction Designated Inspector Areas Map can be found in Appendix P.

Municipal Construction Activities

OKC is authorized by the January 2024 OK MS4 Permit to discharge stormwater and certain non-stormwater from municipal construction activities where OKC is the construction operator. This provision does not extend to applicable co-permitted entities or to OKC contractors. As provided in Part II.A.5.b of the permit, OKC must:

- *Describe how the applicable construction activities will generally be conducted by OKC, including local conditions and other site-specific considerations;* Municipal construction/land disturbing activities will

generally be conducted in compliance with OKC Municipal Code Chapters 48, 57, 16, and the OPDES permit. Permitting and inspection requirements are equally applicable for City and non-city land disturbance. For City Funded unit price contracts, a condensed version of the Under an Acre OKC SWPPP has been developed for use for projects disturbing less than one acre. The use of the condensed "one page" SWPPP may expedite the permitting process.

- *Describe how OKC will implement the technology-based requirements to comply with Part 4 of the latest OKR10;* Municipal construction/land disturbing activities will generally be conducted in compliance with OKC Municipal Code Chapters 48, 57, 16, and the OPDES permit.
- *Provide a description of how OKC will ensure that the OKR10 SWPPP requirements are properly implemented and maintained at municipal construction sites where OKC is the operator, and how OKC will ensure that its contractors obtain authorization under the latest OKR10 from DEQ for stormwater discharges from municipal construction sites where contractors are the operators;* Municipal construction/land disturbing activities will generally be conducted in compliance with OKC Municipal Code Chapters 48, 57, 16, and the OPDES permit. OKC requires contractors working on City projects to assume the role of the operator/responsible party and should obtain a Land Disturbing Activity Permit (less than 1 acre with OKC only, 1 acre or greater with both OKC and DEQ). The Contractors have "daily operational control" of each project and therefore manage the installation and maintenance of erosion controls, as well as ensuring compliance with SWQ permitting requirements, Municipal Code, and the OPDES permit. SWQ Environmental Technicians routinely inspect each project until completion.
- *Provide a description of the general SWPPP conditions and procedures to include site-specific BMPs to account for local considerations.* Municipal construction/land disturbing activities will generally be conducted in compliance with OKC Municipal Code Chapters 48, 57, 16, and the OPDES permit.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC Public Works Administration	Administration of all Public Works programs, projects, personnel, funding sources and operations.
OKC, Public Works Dept. Storm Water Quality Division	Primary permitting, inspection, enforcement and reporting agency for sediment and erosion control.
OKC, Public Works, G.O. Bond Program	Administers all programs of the G.O. Bond program including the management of design, construction and finalization of Bond funded projects.
OKC, Public Works, Drainage Engineering	Administers programs related to storm sewer and waterway enhancement for flood control and alleviation, and the issuing of Flood Plain Activity Permits.
OKC, Public Works, Streets and Drainage Maintenance Division	Administers programs related to channel maintenance, storm drainage repairs, street repair and may conduct certain construction related projects which would qualify for a Land Disturbing Activity permit.
OKC IT Department	Responsible for internal technology programs including data storage, databases, telemetry, cellular

Agency	Roles / Responsibility
	capabilities and internet-based resources.
OKC Public Information	Responsible for all public information releases including review applicable sediment and erosion control brochures, internet-based releases, etc.
Municipal Contractors	OKC requires contractors working on City projects assume the role as the operator / responsible party and should obtain a Land Disturbing Activity Permit. The Contractors have "daily operational control" of each project and therefore manage the installation and maintenance of erosion controls, as well as ensuring compliance with SWQ permitting requirements. SWQ Environmental Technicians routinely inspect each project until completion.
OKC, Municipal Construction Activities	All land disturbing activities inside OKC limits must obtain a Land Disturbing Activity Permit with The City of Oklahoma City Storm Water Quality Management Division. Additionally, construction activities that result in land disturbance greater than one (1) acre, or less than one (1) acre if they are part of a larger common plan of development or sale that totals at least one (1) acre, must obtain authorization to discharge stormwater under the OPDES Construction General Permit OKR10. The City of Oklahoma City Building Plans Examiner flags projects over 500 sq/ft for Land Disturbing Activity permitting, operators must then submit required documentation for Land Disturbing Activity Permit for review to SWQ. City funded Unit Price Contract projects under 1 acre may use the "one-page SWPPP". OKC provides applicants with the Land Disturbing Activity flow chart and Land Disturbing Activity Permitting Submittal Requirements Checklist that explains applicable permitting requirements to their specific site. Projects flagged for FPAT or 404 permitting are required to submit documentation prior to permit issuance. All permit compliance and regulation standards are derived from and enforced through City of Oklahoma City Municipal Code and the OPDES permit.

Agency	Roles / Responsibility
OKC Development Services Department	Provides inspection services of construction sites which are partly or wholly owned or operated by OKC. Hosts pre-development meetings upon request by the development community, SWQ routinely participates.
Oklahoma Department of Environmental Quality	Primary Oversight and Reporting Agency

10. Area Specific Requirements:

TMDL Waterways

The OKR10 General Permit for Stormwater Discharges from Construction Activities with the State of Oklahoma provides in part 2.3.G *"This permit does not authorize discharges of pollutants of concern to impaired waterbodies for which there is an approved total maximum daily load ("TMDL"), or a watershed plan incorporated in Oklahoma's Water Quality Management Plan in lieu of a TMDL unless they are consistent with the approved TMDL or watershed plan or local compliance plan. Applicants must comply with the requirements in Part 5.1.F."*

OKR10 Section 5.1. F provides *"If a TMDL or watershed plan or local compliance plan has been approved for the waterbody, you must also describe how your SWP3 is consistent with any TMDL or watershed plan or local compliance plan applicable to your discharge. Permittees must incorporate any limitations, conditions, or requirements applicable to their discharges into the SWP3 to ensure that the waste load allocations (WLAs) or load allocations (LAs) and/or the TMDL's associated implementation plan will be met within any timeframe established in the TMDL report or watershed-based plan. Monitoring and reporting of the discharges may also be required as appropriate to ensure compliance with the TMDL or watershed-based plan."*

High Priority Construction Sites

The OKR10 Section 3.4 identifies high priority sites based on total acreage and receiving waters. High priority construction sites are sites that: *A. are 40 disturbed acres or greater, or B. discharge within one mile of a receiving waterbody which is identified by DEQ on the latest Section 303(d) list as impaired (i.e., not meeting water quality standards) for sediment and/or turbidity, or C. are located within an ARC, ORW, or waterbody with a TMDL or watershed plan10.*

For discharges that enter a separate storm sewer system prior to discharge, the first water of the state to which you discharge is the waterbody that receives the water from the storm sewer system. In such a case, you are considered to discharge to the impaired water if your site is located within one mile of the separate storm sewer system outfall that discharges to the impaired water. Separate storm sewer systems include both MS4s and non-MS4s. Separate storm sewers do not include combined sewer systems or sanitary sewer systems.
You are not considered to discharge to an impaired water if your site or discharge point is located within one mile of an impaired receiving waterbody, but the point of discharge (or the separate storm sewer outfall if discharging to a separate storm sewer system) is outside the watershed of this waterbody.

Section 4.6 of the OKR10 addresses Water-Quality Based Effluent Limitations for High Priority Construction Sites.

A. If your construction site is considered a high priority construction site, your stormwater discharges must be controlled as necessary to meet applicable water quality standards. Operators seeking coverage under this permit shall not cause, have the reasonable potential to cause, or contribute to a violation of a water quality standard. Where a discharge is already authorized under this permit and is later determined to cause, has the reasonable potential to cause, or contribute to the violation of an applicable water quality standard, DEQ will notify the operator of such violation(s). The permittee shall take all necessary actions to ensure future discharges do not cause, have the reasonable potential to cause, or contribute to the violation of a water quality standard, and document these actions in the SWP3. If violations remain or re-occur, then coverage under this permit may be terminated by DEQ, and an alternative general permit or individual permit may be issued. Compliance with this requirement does not preclude any enforcement activity as provided by the CWA for the underlying violation. If such violation is determined, DEQ may require you to:
1. Develop a supplemental BMP action plan describing SWP3 modifications to address adequately the identified water quality concerns.
2. Submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining water quality standards; or
3. Cease discharges of pollutants from construction activity and submit an alternative general permit or individual permit application.

B. All high priority construction sites must comply with the following:

1. Natural Buffer Requirements
You must ensure that a vegetated buffer zone of at least 100 feet is retained or successfully established/planted between the area disturbed and all perennial or intermittent streams. A vegetated buffer zone of at least 50 feet must be retained or successfully established/planted between the areas disturbed during construction and all ephemeral streams or drainages. If the nature of the construction activity or the construction site makes a buffer impossible, you must provide equivalent controls. Buffer requirements can be found in Appendix T.
2. Sediment Basin Requirements
You are required to comply with the requirements as specified in Parts 4.2.L for drainage locations serving five or more acres disturbed at one time.
3. Stabilization Requirements
You are required to comply with the stabilization requirements as specified in Part 4.3 within seven calendar days after the temporary or permanent cessation of earth-disturbing activities.
4. Site Inspection Requirements
You must conduct site inspections once every seven calendar days at a minimum, and within 24 hours of a storm event of 0.5 inches or greater or within 24 hours of a discharge caused by snowmelt.
5. Corrective Actions
If the inspection or visual examination results indicate any permit violations, you must implement the corrective actions required in Part 5.5.

Section 5.3. I of the OKR10 Measures to Protect High Priority Sites provides a discussion and SWPPP requirements for high priority site discharges to impaired or TMDL waterways:

If you discharge to a high priority site, you must describe and implement any measures necessary to meet the requirements of Part 4.6. You must also include the following documentation as applicable:

1. Information on whether listed endangered or threatened species or critical habitat are found in proximity to the construction activity, and whether such species may be affected by the stormwater discharges or stormwater discharge-related activities (see Appendix A and Part 2.5). You must describe and implement the measures specified in Part 4.6 to protect these endangered species and threatened habitat and resource waters in the SWP3, including any equivalent sediment controls specified in Appendix D.
2. Information on whether stormwater is discharged to waters identified as ORW (see Appendix B).
3. Information on whether stormwater is discharged within one stream mile of a waterbody listed on the latest approved Clean Water Act 303(d) list as impaired. Include information on whether stormwater discharges or stormwater discharge-related activities would have an effect on water quality of the receiving waters. Describe how the BMPs and other controls selected for the site will reduce and avoid the discharges of the pollutant(s) of concern, including requirements of 2.3.F.
4. Information on whether stormwater is discharged into a waterbody with an approved TMDL or watershed plan. You must describe and implement any measures necessary to meet the requirements of the approved TMDL or watershed plan and/or associated implementation schedule established in the TMDL or watershed plan. Monitoring and reporting of discharge quality may also be required if necessary to ensure compliance with an approved TMDL or watershed plan.

303(d) Listed Waterways (Impaired Waters)

The 303(d) list of Impaired Waters in Oklahoma can be found in Appendix C of the Integrated Report on the DEQ's webpage , or the DEQ GIS Map and Data Viewer at http://deq.maps.arcgis.com/home/index.html

Section 5.1.E of the OKR10 continues the discussion of impaired 303(d) segments and provides the following requirement:

If your construction site discharges within one stream mile into a receiving water which has been listed on the Clean Water Act 303(d) list of impaired waters, and your discharges contain the pollutant(s) for which the waterbody is impaired, you must document in your SWP3 how the BMPs and other controls selected for your site will control the discharge of the pollutant(s) of concern. If Part 4.6 applies to your discharge, you must include in your SWP3 the additional requirements specified in that part.

Section 5.3.F.3 provides information regarding the Site Map requirements:

Locations of all waters of the State within one mile of the site, including wetlands that exist within or in the immediate vicinity of the site. Indicate which waterbodies are listed as impaired, which lie within a watershed with approved TMDL, and which are identified by the State as ARC or ORW.

Within the City of Oklahoma City jurisdiction, sites with a disturbance of 1 acre or greater, and within one mile of the following areas are identified as High Priority Construction Sites.

Area 1: Lake Thunderbird Report for Nutrient, Turbidity and Dissolved Oxygen TMDLs.

- Lake Thunderbird Watershed in OKC including Hog Creek (OK520810000030_00); West Branch of Hog Creek (OK520810000040_00), East Elm Creek (OK520810000110_00); Elm Creek (OK520810000100_00); West Elm Creek (OK520810000140_00); Kitchen Creek (OK520810000150_00); Kitchen Lake (OK520810000160_00); North Fork of the Little River (OK520810000170_00); Little River (OK52081000080_00); and Lake Stanley Draper (OK520810000130_00).

See Appendix H for the Area Specific Requirements for the Lake Thunderbird Watershed in OKC.

Area 2: Overholser Lake (OK520520000260_00)

- Sulfate and Turbidity

Area 3: Deep Fork thence Arcadia Lake (OK520710020020_00)

- Chlorophyll-a, Mercury, and Turbidity

Area 4: Deer Creek (OK620910040120_00)

- *Enterococcus*, *Escherichia coliform*, and Turbidity

Area 5: North Deer Creek thence Wes Watkins Reservoir (OK520510000255_00)

- Turbidity

Other site-specific criteria include Outstanding Resource Waters (ORW) and Oklahoma Sensitive Waters and Watersheds Harboring Endangered and Threatened Species and Their Critical Habitat of Concern.

- There are no ORW in the OKC jurisdiction.
- South Canadian River – A 2-mile corridor (one mile from each bank) of the main stem from the Eufaula Reservoir flood pool upstream to the northern border of Custer County. This corridor includes river segments in Blaine, Caddo, Canadian, Cleveland, Custer, Grady, Hughes, McClain, McIntosh, Pittsburg, Pontotoc, Pottawatomie, and Seminole counties. See OKC Sensitive Waters and Watersheds for Federally Listed Species for the OPDES Multi-Sector General Permit OKR05 for Stormwater Discharges from Industrial Activity and the OKR10 Construction General Permit in Appendix R. In OKC, this includes the following water body identification segments:

    - Canadian River OK520610020010_00
    - Canadian River OK520610010010_20

11. Analysis:

No analysis is required for this SWMP component.

SWMP Component 5: Industrial and High-Risk Runoff

1. Program Components:

A. Continue the Industrial Program to identify, monitor, and control pollutants from targeted facilities.
B. Continue the Industrial Program through inspection of facilities.
C. Continue to maintain a list of industrial facilities that are subject to relevant storm water quality permitting. Entities permitted with the City will be maintained within the Accela permit management database.
D. Continue to develop and implement the Industrial Program through auditing Cosmetic Cleaners for compliance with City ordinance.
E. Continue the Industrial Program through public outreach and annual workshops.

2. Definitions:

Affidavit of No Discharge - An "Affidavit of No Discharge for Storm Water Discharges Associated with Industrial Activities" permit application is utilized to certify that a condition of no discharge exists at a facility and is re-submitted once every five years. The facility must maintain a condition of no-discharge at the facility site. If conditions change, the operator must obtain a storm water discharge permit. This OKC permit exemption is being phased out.

Inactive or Unstaffed Certification is a certification used to validate or certify conditions of no activity or no staff at an industrial facility/site. This certification excuses the facility from performing quarterly visual monitoring and employee training, however the facility must perform other required tasks of the permit. The industrial facility/site must maintain conditions of not having any staff or all industrial processes inactive for this certification to remain applicable. If conditions change, the facility operator must contact the City before any discharges occur.

Cosmetic Cleaning – Any system, machine, or substance used to remove undesirable substances from any surface or facade creating free foreign matter. This includes but is not limited to the following types of activities: power washing, carpet cleaning, the washing of buildings, vehicles, sidewalks or parking lots, and similar activities.

Discharge to an Impaired Water (OKR05) – for the purposes of this permit (OKR05), you are considered to discharge to an impaired water if your facility or discharge point is located within one mile of a receiving waterbody which is identified by DEQ on the 303(d) list as not meeting an applicable water quality standard, and requires development of a TMDL (pursuant to Section 303(d) of the CWA), or is addressed by an established TMDL or watershed plan in lieu of a TMDL, or is not in either of the above categories but the waterbody is covered by pollution control requirements that meet the requirements of 40 C.F.R. § 130.7(b)(1). For discharges that enter a separate storm sewer system prior to discharge, the water of the state to which you discharge is the waterbody that receives the stormwater discharge from the separate storm sewer system. In such a case, you are considered to discharge to the impaired water if your facility is located within one mile of the separate storm sewer system outfall that discharges to the impaired water.

Industrial Storm Water Discharge Permit – a permit required by OKC to discharge industrial storm water from specific Standard Industrial Classification Code industries or other facilities required by the Storm Water Quality

Management Superintendent. These industries must perform an industrial activity which is identified as one of the ten industrial categories included in the definition of storm water discharges associated with industrial activities as defined in 40 CFR §122.26(b)(1-4)(i)-(ix) and (xi) or as required by the Superintendent.

No Exposure Certification – all industrial materials and activities are performed indoors or are protected by a storm-resistant shelter to prevent exposure of rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, or waste product. Facilities compliant with the requirements of the No Exposure Certification are provided with an exclusion/exemption from obtaining a full Industrial Storm Water Discharge Permit. See 40 CFR §122.26(g).

OKRO5 – Oklahoma Pollution Discharge Elimination System Multi-Sector General Permit for Stormwater Discharges from Industrial Activity within the State of Oklahoma.

QAP – Quality Assurance Program – a program implemented by the Environmental Unit Supervisor to provide relevant on the job training and employee review to ensure audits are being conducted in accordance with City policy and standard operating procedures with safety and efficiency.

SIC – Standard Industrial Classification codes are four-digit numerical codes used to categorize U.S. companies by the industries in which they operate.

3. Ordinances:

Ordinance	Title	Language / Description
§57-146	Existing Facilities Required to Obtain Permit	Details the application process and required documentation, including key measures which should be implemented, identified and documented. This section also describes the permit duration, late fees, re-inspection fees and enforcement proceedings.
§57-147	New Facility Permits	The ordinance primarily describes construction storm water discharge permits, however §57-147(b)(1) provides that for new construction activities which are currently subject to MSGP or other OPDES, the owner/operator shall submit copies of those permits to the Manager.

Ordinance	Title	Language / Description
§57-148	Permit Application Fees	(a) Each application for the issuance of a New Facility Permit under this article shall be accompanied by a minimum non-refundable fee as set forth in Chapter 60, the General Schedule of Fees, plus such additional fees for land disturbing activity or industrial activity as may be required below. (b) Each application for the issuance of a land disturbing permit under this article shall be accompanied by a non-refundable permit fee as set forth in Chapter 60, the General Schedule of Fees, per location. (c) Each application for an existing facility permit required by Section 57-146 shall be accompanied by a fee as set forth in Chapter 60, the General Schedule of Fees. (d) There is a re-inspection fee as set forth in Chapter 60, the General Schedule of Fees for each additional trip or inspection. The re-inspection fee shall apply to the following inspections: (1) Should the applicant request an inspection and the applicant, facility, project, and/or property not be ready for said inspection on the date of said inspection then the re-inspection fee shall be due for each subsequent inspection until the applicant, facility, project, or property passes inspection; or (2) Upon an inspection for any other purpose, should the applicant, facility, project, and/or property fail to meet established standards, then the re-inspection fee shall be due for each subsequent inspection until the applicant, facility, project, or property passes inspection; or (3) Upon an inspection within a corrective measure or action is directed by the inspector, then the re-inspection fee shall be due for each subsequent inspection until the correction measure or action and the facility, project, or property passes inspection.
§57-149	Maintenance and Submittal of Records	Appropriate proof and records of compliance with the provisions of the Oklahoma City Storm Water Discharge Permit or Land Disturbing Permit will be maintained in the office of the designated contact person and be made available for review at any time by the Manager. A notification for a permit re-issuance request will be sent yearly on the anniversary date of the permit to the Manager.
§57-151	Signatory Requirements	Ordinance provides the signatory requirements for a responsible party, corporation, partnership, governmental agency. The ordinance also provides the certification language.
§57-167	Authority of Stormwater Quality Management	Ordinance identifies the Storm Water Manager and duties authorized to comply with NPDES regulations.

Ordinance	Title	Language / Description
§57-173	Inspections	Ordinance establishes the authority and procedures of the City to inspect facilities other permitted areas.
§57-181	Administrative Enforcement Remedies	Ordinances describe the administrative enforcement remedies including the Notice of Violation, Consent Order, Show Cause Hearing, Compliance Order, Cease and Desist Order and the appeal process.
§57-190-195	Cosmetic Cleaning	Ordinances define cosmetic cleaning and provide the permitting requirements for the activity including registration, permit application procedures, display of registration numbers and certificates, permit requirements and permit denial or revocation procedures.
§60-5	Payment Required	All persons required by the Oklahoma City Municipal Code, 1993, to pay a fee for a license, permit, certificate, inspection, action, use, or other service shall pay to the City the amount established in the General Schedule of Fees.
§60-57-26	Permit application fees	(a) New facility permit: $88.75 through June 30, 2025 and $100.00 effective July 1, 2025 and thereafter. (b) Land disturbing permit: $88.75 through June 30, 2025, and $100.00 effective July 1, 2025, and thereafter. (c) Existing facility permit: $88.75 through June 30, 2025, and $100.00 effective July 1, 2025, and thereafter. (d) Reinspection fee: $88.75 through June 30, 2025, and $100.00 effective July 1, 2025, and thereafter.

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #29	Enforcement	10/18/2018
SOP #49	Industrial Section	10/15/2007
SOP #55	High Risk Data Review Process	In Progress
SOP #84	Cosmetic Cleaning Permit Renewal for Industrial Section	In Progress
TBD	Issuing an Industrial Permit	In Progress
TBD	Permitting and Inspecting Industrial Facilities	In Progress
TBD	Requirements to Permit Evaluation	In Progress

5. Resources:

Administration of the Industrial and High-Risk Runoff components for OKC is provided by the Public Works

Department, Storm Water Quality Management Division. The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Storm Water Permitting Program Account provides the funding for the Industrial and High-Risk Runoff Program and the Construction Site Runoff Program. The FY24/25 budget for this account is $1,831,348.00.

Classification Title	Range	# of Personnel
Environmental Protection Superintendent	519	1
Assistant Environmental Protection Superintendent	517	1
Environmental Unit Supervisor	513	1
Environmental Unit Specialist	511 (NE)	1
Environmental Technician	510 (NE)	4

6. General Program Description:

Operators of qualifying industrial facilities with industrial activities which discharge to or have the potential to discharge industrial storm water to the MS4 or directly to Waters of the State, and operate under a specific Standard Industrial Code (SIC) or Industrial Activity Code, require authorization under an OPDES industrial storm water discharge permit. Currently, OKC is operating under the guidelines of the OPDES Multi-Sector General Permit OKR05 for Stormwater Discharges from Industrial Activity within the State of Oklahoma (November 1, 2023) and relevant municipal code. Other industrial facilities specified by the Storm Water Quality Management Superintendent as discharging or having the potential to discharge pollutants to the MS4 or Waters of the State may also be required to obtain permit coverage.

The Industrial Permitting & Auditing Program is responsible for permitting specific classifications of industry and other industrial facilities specified by the Superintendent, inspection of those industries, enforcement of municipal code, operator education, and reporting for OKC. 40 CFR 122.26(b)(14) defines the ten categories of storm water discharges associated with industrial activity which require authorization. Additional facilities may be required to permit based on the discretion and direction of the Superintendent.

In addition, cosmetic cleaning operations require a permit in OKC. This permit type is administered by the Industrial Permitting Section. Inspections are conducted annually by Industrial Permitting and Auditing inspectors.

Permit fees were historically $55.00 each year. Effective July 1, 2024, permit fees were raised to $88.75. Effective July 1, 2025, permit fees will be raised to $100.00. Reinspection fees are assessed for revisits due to noncompliance. Historically, reinspection fees were $35.00. Effective July 1, 2024, reinspection fees were raised to $83.75. Effective July 1, 2025, reinspection fees will increase to $100.00. Late fees of $15.00 are applied for each month past the expiration date. At the termination of the permitted activity, operators/owners will notify the Superintendent and submit a Notice of Termination (NOT).

To meet the requirement to establish priorities and procedures for monitoring and continually establishing and implementing control measures for such discharges, please refer to the following:

- SWMP Component 13, Wet Weather Analytical
- SWMP Component 14a, Priority Watershed Program
- SWMP Component 14b, Trend and Load Based Monitoring Program
- SWMP Component 15, Illicit Discharge Detection and Elimination Program
- SOP # 49, Industrial Section
- SOP # 55, High Risk Runoff Data Review Process

Quality Assurance Program (QAP)

The QAP is an internal program to ensure that field inspections and associated work are being conducted in a safe, efficient and consistent manner. The Environmental Unit Supervisor conducts monthly inspections with industrial inspectors to provide interactive audits and training to the inspector to ensure that OKC municipal code is being applied consistently, and to ensure proper documentation and follow-up. Results are documented and discussed with the Environmental Technician to correct any deficiencies.

Inspector Areas

SWQ inspectors are assigned to designated areas for normal auditing purposes. Situations may occur that special assignments (such as specific industry classifications) may be assigned outside of a designated area. Industrial Designated Inspector Areas Map can be found in Appendix O.

Task	Type	Task Staffing Resources	Comments
Permitting	Industrial Discharge Permit	Administrative Staff (4); Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technicians (3)	Required documentation: Notice of Intent; Storm Water Pollution Prevention Plan; Permit Application Fees.
Permitting	No Exposure Certification	Administrative Staff (4); Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technicians (3)	Certification is required by OKC from the Owner/Operator every five years. An inspection is performed by OKC to confirm the condition of No Exposure annually for Priority facilities and quinquennially for non-priority facilities.
Permitting	Cosmetic Cleaning Permit	Administrative Staff (4); Environmental Unit Supervisor (1);	Companies conducting cosmetic cleaning activities in OKC are

Task	Type	Task Staffing Resources	Comments
		Environmental Unit Specialist (1); Environmental Technicians (3)	required to obtain a permit. Companies are often encountered in the field. A verbal or written stop work order is generally issued until a permit and BMPs are in place. Permittees are inspected annually.
Permitting	Affidavit of No Discharge	Administrative Staff (4); Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technicians (3)	Certification is required by OKC from the Owner/Operator every five years. An inspection is performed by OKC to confirm the condition of No Discharge. This permit exemption is being phased out.
Permitting	Inactive or Unstaffed Facilities	Administrative Staff (4); Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technicians (3)	Required documentation: Notice of Intent; Storm Water Pollution Prevention Plan; and Permit Application Fees. Inactive and unstaffed facilities are inspected twice annually. Non-priority inactive and unstaffed facilities are inspected annually.
Permitting	High Risk & Industrial Stormwater Runoff Monitoring Program	Administrative Staff (2); Environmental Unit Supervisor (1); Environmental Technicians (3).	Required documentation: Notice of Intent, Storm Water Pollution Prevention Plan; and Permit Application Fees. Facilities are inspected twice each year. Permits are renewed annually. Note: High Risk Runoff facilities

Task	Type	Task Staffing Resources	Comments
			may be No Exposure or No Discharge Facilities. In those cases, no permit fee is required and re-certification is required every five years, beginning in 2025, and submit results to OKC. High Risk Runoff No Exposure or No Discharge Facilities are not required to perform monitoring.
Permit Universe Identification	Program uses lists generated from business filing which indicate the type of business conducted. This list is obtained to identify industries which meet specific regulated standard industrial classifications and which require an OKC permit.	Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technicians (3)	Research is conducted every 5-years. Personnel conduct this screening to determine businesses which qualify for an Industrial Storm Water Discharge Permit or No Exposure permitting exemption. Lists of facilities are maintained and updated with the Accela permitting database and/or Excel spreadsheets as appropriate.
City Inspections	Industrial Discharge; No Exposure; Cosmetic Cleaning; "High Risk" EPCRA and SARA Title III sites	Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technicians (3)	Industrial Discharge facilities are inspected twice annually; Cosmetic Cleaners entities are inspected annually; No Exposure facilities are inspected annually or once every five years. Inactive or Unstaffed facilities are inspected annually or semi-annually; and Affidavit of No

Task	Type	Task Staffing Resources	Comments
			Discharge facilities are inspected once every five years.
City Inspections	Revocable Permit / Special Permit Inspections	Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technicians (3)	Certain special events or revocable permits issued by OKC are inspected to ensure cleanliness and proper disposal of generated wastes.
City Inspections (QAP)	Quality Assurance Program Supervisory Inspections	Environmental Unit Supervisor (1); Environmental Unit Specialist; Environmental Technicians (3)	Minimum of one QAP Audit for each Environmental Technician and Specialist each year. Results are discussed with the Environmental Technician and/or Specialist to correct noted deficiencies.
Complaint Response	Action Center Requests and Pollution Investigations	Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technicians (3)	Section is responsible for responding to Action Center Requests, Pollution Investigations, and Facility Complaints.
Data	Database, Various Spreadsheets, Other Media (site photographs, scanned images)	Accela permit/inspection database; secondary data storage in MS Access and Excel spreadsheets. Photographs and other data sources are housed on the City network.	Accela includes: permit data; scheduling inspections; inspection data; and enforcement data.
Enforcement Action	Code Enforcement	Environmental Technicians (3); Environmental Unit Specialist (1); Environmental Unit Supervisor (1); Administrative Staff	Notices of Violation; Cease and Desist Orders; Compliance Orders; Show Cause Hearings; Re-inspection Fees; Verbal Warnings; Affidavits of Probable

Task	Type	Task Staffing Resources	Comments
		(4); Assistant Environmental Protection Superintendent (1); Environmental Protection Superintendent (1); OKC Municipal Courts.	Cause.
Education and Outreach	Workshop (Live and Virtual)	Oklahoma City will conduct at least one workshop, virtual, or live training annually.	Typically, the workshop is conducted in the spring. Two sessions are offered. Virtual training courses may be held throughout the year.
Reports	Oklahoma Department of Environmental Quality (DEQ)	Supervisor (1); Assistant Environmental Protection Superintendent (1); Environmental Protection Superintendent (1)	Section results are reported annually to the DEQ in the OKC MS4 Annual Report.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Education and Outreach (External)	Number of Workshops	# Workshops / Year	One workshop / year; Report Annually
Education and Outreach (External)	Number of Workshop Participants	# Participants / Year	150 / year; Report Annually
Education and Outreach (External)	Number of special notifications distributed	Individuals Distributed / Year	As needed
Education and Outreach (Internal)	Number of Continuing Education Professional Development Hours	Hours	Four hours / staff member; Report Annually

Task	Metric	Reported Figure	Goal / Reporting
Permitting	Number of Cosmetic Cleaning Permits	Total # of Active Cosmetic Cleaning Permits / Year	100% of companies which perform commercial cosmetic cleaning activities in OKC; Report Annually
Permitting	Number of Cosmetic Cleaning Permits Issued/Re-issued	# Cosmetic Cleaning Permits Issued or Re-issued / Year	No goal established; Report Annually
Permitting	Number of Industrial Discharge Permits Issued / Reissued	# of Industrial Discharge Permits Issued or Re-issued / Year	No goal established; Report Annually
Permitting	Number of Active Industrial Discharge Permits	Total # of Active Industrial Discharge Permits / Year	No goal established; Report Annually
Permitting	Number of No Exposure Certifications issued	Total # of Active No Exposure Certification Permits / Year	No goal established; Report Annually
Permitting	Number of Active No Exposure Certifications	Total # of No Exposure Certifications Permits / Year	No goal established; Report Annually
Permitting	Total Number of Affidavit of No Discharge Locations	Total # of Affidavit of No Discharge Location Permits / Year	No goal established; Report Annually
Permitting	Total Number of Notices of Termination	Total # NOT / Year	No goal established; Report Annually
Inspections	Number of No Exposure Inspections Conducted	# No Exposure Inspections / Year	No goal established; Report Annually
Inspections	Number of Industrial Discharge Permit Site Inspections	# Inspections / Year	One inspection / year; Report Annually
Inspections	Number of Cosmetic	# Inspections / Year	100% goal; Report Annually

Task	Metric	Reported Figure	Goal / Reporting
	Cleaning Permittee Inspections		
Inspections	Number of Re-inspections	# Re-inspections / Year	No goal established; Report Annually
Inspections	Amount of Re-inspection Fees Collected	Total Monetary Figure	No goal established; Report Annually
Inspections	# of Cosmetic Cleaning Permittee Inspections	# Inspections / Year	100% goal; Report Annually
Inspections	Number of No Discharge Inspections Conducted	# Inspections / Year	No goal established; Report Annually
Inspections (QAP)	Number of QAP Audits Performed	# QAP Audits / Year	Minimum one audit / year for each Environmental Technician and Specialist; Report Annually
Inspections (Revocable Permit / Special Permit Events)	Number of Special Permit or Revocable Permit Inspections Conducted	# Conducted / Year	No goal established; Report Annually
Complaint / Response	Number of Action Center Request and PS Reports	Reported Under the Pollution Complaints and Spills Response Component 11	No goal established; Reported Annually
Enforcement	Number of Enforcement Remedies Issued (NOVs, Compliance Orders, Cease and Desist Orders, Show Cause Hearings, Consent Order, and Affidavits of Probable Cause)	# Enforcement Remedies Issued / Permit Year	No goal established; Report Annually

8. Narrative Goals:

To comply with the OKC MS4 Storm Water Discharge Permit and support the requirements of the OKR05 by providing local permitting services, inspections/facility audits, enforcement actions, investigations, support and education to certain industries and activity types within the corporate boundaries of OKC.

9. Cooperating Departments, Agencies and Communities:

OKC Departments, Divisions, and associated facilities which are permitted with an Industrial Storm Water Discharge Permit are listed in Appendix Y.

Agency	Roles / Responsibility
OKC Public Works Administration	Administration of all Public Works programs, projects, personnel, funding sources and operations.
OKC, Public Works Dept. Storm Water Quality Division	Primary permitting, inspection, enforcement, household hazardous waste disposal services, education/outreach, and is the reporting agency for OKC MS4 NPDES / OPDES compliance.
OKC IT Department	Responsible for internal technology programs including data storage, databases, telemetry, cellular capabilities and internet-based resources.
Oklahoma Department of Environmental Quality	Primary oversight Agency

10. Area Specific Requirements:

The OPDES Multi-Sector General Permit OKR05 for Stormwater Discharges from Industrial Activity within the State of Oklahoma November 1, 2023 provides the following information regarding impaired stream segments and water bodies with TMDLs. Part 1.9.6 For Discharges to Water Quality-Impaired Waters provides:

1. If you are a new discharger or a new source as defined in Part 9, you are not eligible for coverage under this Permit to discharge stormwater to an impaired water, as defined in Part 9, unless you do one of the following:

a. Prevent all exposure to stormwater of the pollutant(s) for which the waterbody is impaired, and retain documentation of procedures taken to prevent exposure onsite with your SWP3; or
b. Provide to DEQ appropriate technical information or other documentation to support your claim that the pollutant(s) for which the waterbody is impaired are not present at your site, and retain such documentation with your SWP3.

If you discharge to an impaired water, where a Total Maximum Daily Load (TMDL) or watershed plan in lieu of a TMDL has not been established, you must take all necessary actions to ensure that future discharges do not cause or contribute to an exceedance of a water quality standard and must document these actions in your SWP3. Oklahoma's 303(d) list of impaired water is found in Appendix C of the Integrated Water Quality Assessment Report (IR) which is available on the DEQ's website.

2. You are not authorized to discharge any pollutant into any water for which a TMDL or watershed plan in lieu of a TMDL has been established unless your discharge is consistent with the TMDL or watershed plan. This provision applies only to discharges containing the pollutant(s) for which the waterbody is impaired.

a. *If a TMDL or watershed plan in lieu of a TMDL is established for any waterbody into which you discharge prior to the date that you submit an NOI, and if that TMDL or watershed plan includes a wasteload allocation (WLA) or load allocation (LA) for a pollutant likely to be discharged by the facility, your discharges must meet the requirements of the TMDL report or watershed plan and/or its associated implementation plan within any timeframe established in the TMDL report or watershed plan. Monitoring and reporting of the discharges may also be required as appropriate to ensure compliance with the TMDL or watershed plan.*
b. *If a TMDL or watershed plan in lieu of a TMDL is established for any waterbody into which you discharge after the date that you submit an NOI, you must incorporate any limitations, conditions, and requirements applicable to your discharges into your SWP3 to ensure that the WLA, LA and/or the TMDL's associated implementation plan will be met within any timeframe established in the TMDL report. Monitoring and reporting of the discharges may also be required as appropriate to ensure compliance with the TMDL or watershed plan.*

***Note**: For discharges that enter a separate storm sewer system prior to discharge, the first water of the state to which you discharge is the waterbody that receives the water from the storm sewer system. (Separate storm sewer systems do not include combined sewer systems or sanitary sewer systems. Separate storm sewer systems include both municipal separate storm sewer systems (MS4) and non-municipal separate storm sewer systems.)*

The OKR05 Part 2.2.2 Discharge to Water Quality-Impaired Waters provides:

You are considered to discharge to an impaired water if your facility or discharge point is located within 1 mile of a receiving waterbody which is identified by DEQ on the latest Section 303(d) list as not meeting an applicable water quality standard, and:

1. *Requires development of a TMDL or watershed plan in lieu of a TMDL (pursuant to section 303(d) of the CWA); and/or*
2. *Is addressed by an established TMDL or watershed plan in lieu of a TMDL.*

For discharges that enter a separate storm sewer system prior to discharge, the first water of the state to which you discharge is the waterbody that receives the water from the storm sewer system. In such a case, you are considered to discharge to the impaired water if your facility is located within one mile of the separate storm sewer system outfall that discharges to the impaired water. Separate storm sewer systems include both MS4s and non-MS4s. Separate storm sewer systems do not include combined sewer systems or sanitary sewer systems.

You are not considered to discharge to an impaired water if your facility or discharge point is located within one mile of an impaired receiving waterbody, but the point of discharge (or the separate storm sewer system outfall if discharging to a separate storm sewer system) is outside the watershed of this waterbody.

If you discharge to an impaired water, you must document in your SWP3 how you will comply with the following requirements:

1. *Implement and maintain stormwater controls/BMPs that will ensure that the 303(d) impairment caused by the identified pollutant(s) of concern for your receiving waters will not cause, have the reasonable potential to cause, or contribute to an in-stream exceedance of water quality standards. You must include the following information when developing or revising your SWP3:*
    a. *A list of the stormwater controls/BMPs you have implemented or will implement to reduce the pollutants of concern. Describe how you expect the selected controls to reduce the pollutants of concern;*
    b. *Identify potential significant sources of pollutants of concern entering your discharges including any allowable non-stormwater discharges (see Part 1.3) that contribute significant pollutants to impaired water(s); and*
    c. *Choose different stormwater controls/BMPs from EPA's menu or other similar sources that can be used for managing the identified pollutants in your discharges.*
2. *Where a discharge is already authorized under this permit and is later determined to cause, have the reasonable potential to cause, or contribute to the in-stream exceedance of an applicable water quality standard, DEQ will notify you. You must take all necessary actions to ensure that future discharges do not cause, have the reasonable potential to cause, or contribute to in-stream exceedance of a water quality standard and must document these actions in your SWP3. If an exceedance remains or recurs, the coverage under this permit may be terminated by DEQ, and DEQ may require an application for coverage under an individual permit or alternative general permit.*

2.2.2.1 Existing Discharger to an Impaired Water with an Established TMDL

Discharge of a pollutant into any water for which a TMDL or watershed plan in lieu of a TMDL for that pollutant has been either established or approved by DEQ or EPA is prohibited, unless the discharge is consistent with any limitations, conditions, timeframes, or other requirements of that TMDL or watershed plan.

Your SWP3 must incorporate all the pollutants of concern associated with the impairments. At a minimum, the SWP3 shall include the following items:

a. *List of specific stormwater controls/BMPs, including alternative BMPs, to be used to meet the requirements of the TMDL, watershed plan in lieu of a TMDL, and/or associated implementation plan. Summary information on some BMPs that may be considered for pollutant reduction can be found in the TMDL reports. Permittees are not limited to BMPs listed in the TMDL reports and should select appropriate BMPs that are expected to result in progress towards meeting the reduction goals established in the TMDL.*
b. *These BMPs shall be evaluated at least once per year to assess the effectiveness in reducing the discharge of pollutants of concern. The results of the evaluation shall be included in the Annual Comprehensive Site Compliance Evaluation Report (ACSCER) per Part 7.3.*

c. *If a selected BMP does not reduce the discharge of pollutants of concern, implement alternative BMP within one year of determining a BMP is ineffective.*
d. *Monitor all pollutants for which a WLA has been established for your facility at the frequencies established in the TMDL or watershed plan in lieu of a TMDL, or at a minimum of once per year. You must comply with the applicable monitoring requirements of Part 4.2.3.1. DEQ will inform you only if coverage under an individual permit is necessary per Part 1.2.*

2.2.2.2 Existing Discharger to an Impaired Water without an Established TMDL
If you discharge to an impaired water without an established TMDL or watershed plan in lieu of a TMDL, you are still required to comply with Part 2.2.1, and you must comply with the monitoring requirements of Part 4.2.3.1. Note that the impaired waters monitoring requirements of Part 7.2.3.1 also apply where DEQ determines that your discharge is not controlled as necessary to meet applicable water quality standards in an impaired downstream water segment, even if your discharge is to a receiving water that is not identified as impaired according to Part 2.2.2.

2.2.2.3 New Discharger or New Source to an Impaired Water
If your authorization to discharge under this Permit relied on Part 1.9.6 for a new discharger or a new source to an impaired water, you must implement and maintain any measures that enabled you to become eligible under Part 1.9.6, and modify such measures as necessary pursuant to any 6 corrective actions per Part 5. You also must comply with Part 2.2.1 and the monitoring requirements of Part 4.2.3.1.

Part 4.2.3 Discharges to Impaired Waters Monitoring provides:

4.2.3.1 Permittees Required to Monitor Discharges to Impaired Waters

Discharges to impaired waters without an established TMDL or watershed plan in lieu of a TMDL: *Beginning in the first full quarter following October 1, 2022 or your date of discharge authorization, whichever date comes later, you must monitor all pollutants for which the waterbody is impaired and for which a standard analytical method exists (see 40 CFR Part 136) once per year at each outfall discharging stormwater to impaired waters without an established TMDL or watershed plan in lieu of a TMDL.*
If a pollutant of concern is expressed in the form of an indicator or surrogate pollutant, you must monitor for that indicator or surrogate pollutant. For example, if the pollutant of concern for the impaired waterbody is suspended solids, turbidity or sediment/sedimentation, you must monitor for total suspended solids (TSS), or if the pollutant of concern is bacteria, you must monitor for E. coli.

No monitoring is required when a waterbody's biological communities are impaired (i.e., when a waterbody is listed on the 303(d) list as impaired based on fishes bio-assessments, macroinvertebrate bio-assessments, or other biological criteria), but no pollutant, including indicator or surrogate pollutants, is specified as causing the impairment, or when a waterbody's impairment is related to hydrologic modifications, impaired hydrology, or other non-pollutant. Permittees should consult with DEQ for any available guidance regarding required monitoring parameters under this part.
If the pollutant of concern is not detected and not expected to be present in your discharge, or it is detected but you have determined that its presence is caused solely by natural background sources, you may discontinue monitoring for that pollutant. As required by Part 6.2.10, to support a determination that the pollutant's presence

is caused solely by natural background sources, you must document and maintain with your SWP3 the following information::

• Include an explanation of why you believe that the presence of the pollutant of concern in your discharge is not related to the activities or materials at your facility.

• Include data and/or studies that tie the presence of the pollutant of concern in your discharge to natural background sources in the watershed.

Natural background pollutants include those that occur naturally as a result of native soils, vegetation, wildlife, and/or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on your site, or pollutants in run-on from neighboring sources that are not naturally occurring. However, you may be eligible to discontinue annual monitoring for pollutants that occur solely from these sources and should consult DEQ for related guidance (see Part 4 on pages 8-10 of the 2022 OKR05 factsheet). You must notify DEQ regarding discontinuation of monitoring due to non-detection of a pollutant or due to the pollutant's presence being caused solely by natural background sources.

If the pollutant of concern is detected, the permittee shall continue to monitor for that pollutant and conduct the following steps:

- *Initiate modifications to the SWP3 to include additional structural controls/BMPs and document all corrective actions necessary, including improvements to BMP, immediately but no later than 14 days after discovery of a pollutant of concern's detection.*
- *If the permittee is unable to complete the installation or repair within 14 calendar days, the permittee shall document why it is infeasible within the 14-day timeframe and complete the necessary work as soon as practicable but no later than 28 days after discovery.*

Include all documentation within or as an attachment to the SWP3. These time intervals are not grace periods, but are reasonable schedules for documenting findings and for making repairs and improvements. These time intervals are in this permit to ensure that the conditions prompting the need for these repairs and improvements do not persist indefinitely.

Discharges to impaired waters with an established TMDL or watershed plan in lieu of a TMDL: *For stormwater discharges to waters for which there is an established TMDL or watershed plan in lieu of a TMDL prior to the date that you submit a NOI, and if that TMDL or watershed plan includes a WLA or LA for a parameter likely to be present in your discharge, your discharge must meet any limitations, conditions, or other requirements associated with that WLA, LA and/or TMDL within any timeframes established in the TMDL or watershed plan.*

You must monitor all pollutants for which a WLA or LA has been established for your discharges at the frequencies established in the TMDL or watershed plan, or at a minimum of once per year. You must adopt any WLAs assigned to your discharges specified in the TMDL, or similar targets in the watershed plan, as a measurable goal in your SWP3. If the TMDL or watershed plan relies on a BMP-based approach, effective implementation of additional TMDL or watershed plan-related BMPs or control measures will be sufficient to implement applicable WLAs. If the TMDL or watershed plan specifies additional requirements, you must also meet these additional requirements.

If a TMDL or watershed plan in lieu of a TMDL is approved for any waterbody into which you discharge after the date that you submit a NOI, you must incorporate any limitations, conditions, and requirements applicable to

the discharges into your SWP3 to ensure that the requirements of the implementation plan associated with the WLA, LA, and/or the TMDL will be met within any timeframes established in the TMDL or watershed plan.

OKC area TMDLs which are active and have a municipal compliance plan are listed below. 303(d) Listed (impaired) water bodies are identified in Appendix E and OKC area TMDLs are identified in Appendix F.

Area 1: Lake Thunderbird Report for Nutrient, Turbidity and Dissolved Oxygen TMDLs.

- Lake Thunderbird Watershed in OKC including Hog Creek (OK520810000030_00); West Branch of Hog Creek (OK520810000040_00), East Elm Creek (OK520810000110_00); Elm Creek (OK520810000100_00); West Elm Creek (OK520810000140_00); Kitchen Creek (OK520810000150_00); Kitchen Lake (OK520810000160_00); North Fork of the Little River (OK520810000170_00); and Little River (OK52081000080_00).

See Appendix I for the Area Specific Requirements for the Lake Thunderbird Watershed in OKC for existing and future permits engaged in activities specified by the SIC Code or Activity Code:

- 2951, 2952: Asphalt Paving and Roofing Materials (production)
- 3271-3275: Concrete, Gypsum and Plaster Products (production)
- 1442, 1446: Sand and Gravel (mineral mining and dressing)
- Other activities deemed to be potential sources of nutrients and sediment to the Lake as determined by the DEQ on a case-by-case basis.

Area 2: North Canadian River Report for Bacteria TMDLs.

- Applicable Stream Segments of Basin 5 Canadian-North Canadian-Deep Fork in OKC including Mustang Creek (OK520520000240_00), Crooked Oak Creek (OK520520000150_00), Crutcho Creek (OK520520000070_00), and the North Canadian River (OK5205200000250_00; OK520520000210_00; OK520520000010_40; OK52052000010_30; OK520520000010_20; and OK520520000010_10).

Other site specific criteria include Outstanding Resource Waters (ORW) and Oklahoma Sensitive Waters and Watersheds Harboring Endangered and Threatened Species and Their Critical Habitat of Concern.

- There are no ORWs in the OKC jurisdiction.
- South Canadian River – A two-mile corridor (one mile from each bank) of the main stem from the Eufaula Reservoir flood pool upstream to the northern border of Custer County. This corridor includes river segments in Blaine, Caddo, Canadian, Cleveland, Custer, Grady, Hughes, McClain, McIntosh, Pittsburg, Pontotoc, Pottawatomie, and Seminole counties. See OKC Sensitive Waters and Watersheds for Federally Listed Species for the OPDES Multi-Sector General Permit OKR05 for Stormwater Discharges from Industrial Activity in Appendix R. In OKC, this includes the following water body identification segments:

    - Canadian River OK520610020010_00
    - Canadian River OK520610010010_20

11. Analysis:

No analysis is required for this SWMP component.

SWMP Component 6: Household Hazardous Waste / Used Motor Vehicle Fluids

1. Program Components:

A. Continue to operate and maintain the permanent household hazardous waste collection center to properly dispose of used motor vehicle fluids and household hazardous waste that is readily available to the residential sector within the MS4 and to qualifying Oklahoma City residents or residents from other communities with legal inter-jurisdictional agreements.

2. Definitions:

Household Hazardous Waste – leftover or un-used household products which can catch fire, react, explode, or that are corrosive or toxic. Examples include paints, cleaning products, new and used oil, batteries, etc.

Solid Waste Abatement Program (SWAP) – program implemented by OKC to divert unused or lightly used products back for it's intended purpose.

3. Ordinances:

Ordinance	Title	Language / Description
§57-172(b)	Illicit Connections and Improper Disposal	(b) The Manager shall take appropriate steps to detect and eliminate improper discharges, including programs to screen for improper disposal and programs to provide for public education, public information and other appropriate activities to facilitate the proper management and disposal of used oil, toxic materials, and hazardous household waste.

4. Standard Operating Procedures and Policies

SOP	Name	Revision
SOP #35	Aerosol Can Consolidation (HHW04)	8/31/2022
SOP #36	Bulb Eater (HHW14)	9/28/2022
SOP # 37	Flammable Liquids Bulking (HHW13)	8/30/2022
SOP #38	Drum Identification Numbers (HHW21)	1/23/2023
SOP #39	Forklift	6/10/2025
SOP #41	Chemical Labpack (HHW12)	8/3/2022
SOP #42	Lockout Tagout	9/14/2023
SOP #43	Vehicle Unloading (HHW03)	8/31/2022
SOP #44	Waste Battery Storage, Handling and Consolidation (HHW05)	9/15/2022
SOP #45	Waste Oil/Antifreeze Consolidation (HHW06)	9/16/2022
SOP #61	Geiger Counter (HHW02)	10/19/2022
SOP #64	Chemical Labpack (HHW12)	8/3/2022
SOP #66	Chemical Segregation (HHW07)	9/23/2022

SOP #67	Electronic Waste (HHW17)	10/19/2022
SOP #68	Latex Based Paint Can Crushing (HHW09)	9/27/2022
SOP #69	Oil Based Paint or Solvent Can Crushing (HHW10)	9/27/2022
SOP #70	Power Sprayer (HHW11)	9/27/2022
SOP #71	Refueling Fork Truck (HHW16)	8/3/2022
PW-Policy 18-01	Solid Waste Abatement Program (SWAP)	11/26/2018

5. Resources:

Administration of the Household Hazardous Waste Collection Center (HHWCC) for OKC is provided by the Public Works Department, Storm Water Quality Management Division. The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, fees, service charges, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Household Hazardous Waste Collection Center Program budget account provides the funding for the HHWCC and operations. The FY24/25 budget for this account is $1,192,027.00.

Classification Title	Range	# of Personnel
Environmental Unit Supervisor	513	1
Environmental Unit Specialist	511 (NE)	1
Environmental Technician	510 (NE)	4
Administrative Coordinator	509	1
Laborer II	PTP	0
*Contract Labor (Qualified Personnel)	Hourly	TBD

*A contract is available to provide qualified personnel in the case that the HHWCC requires personnel to maintain operability or increase work outputs.

6. General Program Description:

Since 2003, the Household Hazardous Waste Collection Center (HHWCC) has provided a safe and economical process for managing a full range of household hazardous materials. Typical types of household hazardous waste received include: cleaning products, automotive products, flammable products, lawn and garden chemicals, indoor pesticides, workshop/painting supplies, lubricants, CFL and fluorescent light bulbs, swimming pool/spa chemicals, mercury, batteries and other products containing hazardous materials. The facility accepts a wide range of household products. OKC has developed an online list of typical products that are accepted. Items not accepted at the facility include radioactive wastes, biomedical wastes, commercial hazardous wastes, prescription medications, compressed gas cylinders, tires and computer equipment. The facility is located at:

1621 South Portland Avenue, Building 1
Oklahoma City, Oklahoma 73108
(405) 682-7038

The facility was designed to accommodate a high volume of traffic and manage large quantities of household hazardous waste. The facility serves the residents of Oklahoma City, covering ~621 square miles. The facility is open from 9:30 AM to 6:00 PM Tuesday through Friday and 8:30 AM to 11:30 AM on Saturdays. Note: The facility is closed on City observed holidays and periodically for training and maintenance purposes. Residents must provide proof of residency by bringing a recent water bill or driver's license. Residents from other communities with MoUs (The Village, Yukon, Shawnee, El Reno, Edmond, Bethany, Warr Acres, Moore and Nichols Hills) can use the facility but may be charged for the service through their respective municipality. Participating municipalities are assessed at an established equivalent rate unit (ERU). The ERU is provided in the following table:

≤ 7.5 gallons	0.5 ERU	$ 39.50
> 7.5 gallons to 15 gallons	1.0 ERU	$ 79.00
> 15 gallons to 22.5 gallons	1.5 ERU	$118.50
> 22.5 gallons	2.0 ERU	$158.00

Note: Minimum charge per vehicle/delivery = 0.5 ERU. The Maximum charge per vehicle/delivery – 2.0 ERU

The HHW program also provides additional services such as:

- Solid Waste Abatement Program (SWAP) provides an opportunity to recycle lightly or unused products back to the consumer. See customer policy directive in Appendix AR.
- Special collection events which accept tires, e-waste, medication and ammunition;
- Neighborhood collection services held within a neighborhood, by request of a neighborhood association or homeowners association;
- Homebound Services – household chemical waste pickup at resident's homes;
- Disaster Assistance Services – provide support with collection, transportation, and disposal of household hazardous waste from disaster impacted areas.
- Facility tours for community groups, civic and institutional groups;
- OKC Fire Department support for managing disposal of compromised lithium-ion batteries which are delivered to a local fire station or discovered at a residential fire response.

Household Hazardous Waste Collection Center Permits

The HHWCC is permitted as a Solid Waste Transfer Facility through the DEQ (Permit #3555054). Permit conditions allow for the collection of residential household hazardous waste and does not extend to commercial, industrial, municipal, or conditionally exempt small quantity generators. The facility also is categorized for the No Exposure Certification through OKC's SWQ permitting programs.

Task	Type	Staffing	Comments
Facility Management	Management	Environmental Protection Superintendent (1), Environmental Unit Supervisor (1),	*Environmental Unit Specialist Manages on behalf of the Unit Supervisor when absent.

Task	Type	Staffing	Comments
		*Environmental Unit Specialist (1)	
Collection of Household Hazardous Waste	Service	Environmental Unit Specialist (1), Environmental Technicians (4)	Qualified personnel from other SWQ Sections may also collect HHW when needed.
Special Collection Event – State Fairgrounds	Service	All Storm Water Quality Management Staff. Supporting staff from OKC Police Department, Streets and Drainage Division of Public Works, and the DEQ. Contracted labor may be used.	All SWQ staff members participate in this event. Staff survey customers, provide information to the customer, check quantities and types of materials delivered. This mobile event collects used tires, ammunition, pharmaceuticals, and computers.
Special Collection – Neighborhood Mobile Events	Service	**Environmental Unit Specialist (1); Environmental Technicians (1)	**Staffing may be two Technicians or a Unit Specialist and Technician (depending on availability). These mobile collection events are for residential areas which have active homeowner's or neighborhood associations. Special collection events are reported as the combined number of disaster related collections, State Fairground collections and Homebound collections.

Task	Type	Staffing	Comments
Special Collection – Homebound Services	Service	***Environmental Unit Specialist (1); Environmental Technicians (1)	***Staffing may be two Environmental Technicians or an Environmental Unit Specialist and Environmental Technician (depending on availability). These mobile collection events are for residential areas, homebound residents or the elderly. Special collection events are reported as the combined number of disaster related collections, State Fairground Collections and Homebound Collections.
Special Collection – Disaster Assistance	Service	As Needed	Determined by the magnitude of the disaster. Special collection events are reported as the combined number of disaster related collections, State Fairground Collections and Homebound Collections.
HHWCF Recycling / "Swap Shop"	Service	Environmental Unit Supervisor (1), Administrative Coordinator (1)	Program created to recycle unused or lightly used products back to the consumer. Facility participants may select up to 10 products each week.
Advertising Campaigns	General Outreach	Environmental Protection Superintendent (1); Environmental Unit	Public Outreach campaigns using various media

Task	Type	Staffing	Comments
		Supervisor (2), Community Relations Coordinator (1)	platforms including but not limited to billboards, radio, general social media platforms/targeted social media, OKC's website, news releases, internal memorandums, television, utility bill inserts, and/or pamphlets.
Record Keeping	Records Management	Environmental Unit Supervisor (1), Administrative Coordinator (1)	Records must meet any applicable Federal, State and local requirements and include any applicable retention times.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Facility Management	Number Days Open	# Days Open / Year	~260 Days/Year
Facility Management	Number of Memorandums of Understanding with applicable communities	# MOU / Permit Year	Report number and communities; Reported Annually
Collection of Household Hazardous Waste	Number of residential loads	# Residential Loads / Year	Reported Annually
Collection of Household Hazardous Waste	Quantity of HHW collected	Pounds HHW Collected / Year	Reported Annually
HHWCF Recycling / "SWAP Shop"	Total pounds collected, separated and released for public reuse	Pounds Reused / Year	Reported Annually
Special Collection Events	Number of special collection events	# Special Collection Events / Year	Report Annually
Special Collection Events	Number of participants for	# Special Collection	Report Annually

Task	Metric	Reported Figure	Goal / Reporting
	the special collection events	Participants / Year	
Special Collection Events	Quantity of HHW collected	Pounds of HHW Collected at Special Collection Events / Year	Report Annually

8. Narrative Goals:

Provide household hazardous waste disposal, exchange, and recycling services to qualifying residents and other communities with legal interjurisdictional agreements. To provide education to residents to identify hazardous household chemicals and the proper method of disposal. To conduct special events which provide disposal services for tires, ammunition, pharmaceuticals and computers for residents of OKC. Provide services on special requests to homebound residents and neighborhood associations (homeowners associations) through mobile collections.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC Public Works Administration	Administration of all Public Works programs, projects, personnel, funding sources and operations.
OKC, Public Works Department, Storm Water Quality Division	Primary permitting, inspection, enforcement, household hazardous waste disposal services, education/outreach and is the reporting agency for OKC MS4 NPDES compliance.
OKC IT Department	Responsible for internal technology programs including data storage, databases, telemetry, cellular capabilities and internet-based resources.
OKC Public Information Office	Responsible for all public information releases including review applicable brochures, media announcements, educational campaigns, etc.
Municipal Contractors	HHWCF contracts with various vendors to supply services and products which are necessary in the day-to-day operation of the facility including disposal services, maintenance services, supplies and cleaning services.
OKC Utilities Department	Billing and utility verification of residency. Periodic information is released through the Utility Department billing system.
*City of Bethany	Memorandum of Understanding
*City of Edmond	Memorandum of Understanding

Agency	Roles / Responsibility
*City of El Reno	Memorandum of Understanding
*City of Moore	Memorandum of Understanding
*City of Shawnee	Memorandum of Understanding
*City of the Village	Memorandum of Understanding
*City of Warr Acres	Memorandum of Understanding
*City of Yukon	Memorandum of Understanding
*City of Nichols Hills	Memorandum of Understanding
OKC Police Department	Assistance with special collection event site security and collection of ammunition/pharmaceuticals
OKC Fire Department	Assistance with compromised lithium-ion battery disposal which are delivered to a fire station or discovered during a residential fire.
Oklahoma Department of Environmental Quality	Primary oversight Agency

*See Appendix Z for OKC MoUs.

10. Area-Specific Requirements:

No area-specific requirements exist for this SWMP component.

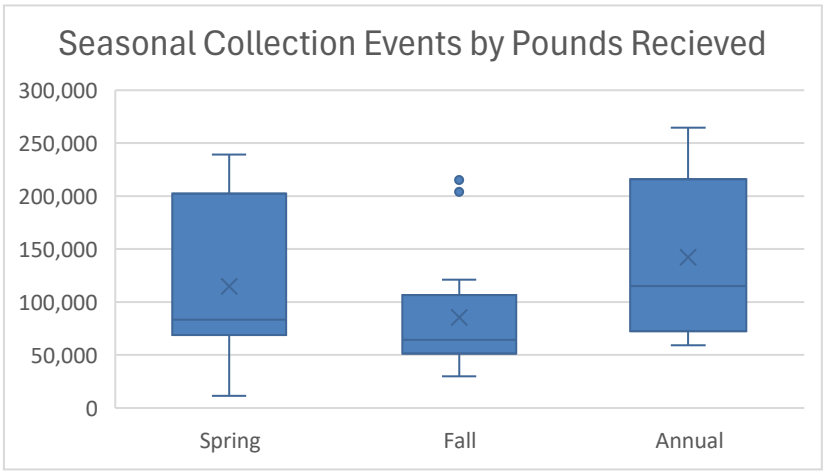
11. Analysis:

Analysis indicates the HHW collections have exhibited a 2%, five-year (2019-2023) average increase. The average total waste collected in 2010-2012 was compared to the waste collected in 2021-2023. A 9.2% growth has been realized between those aforementioned and averaged time periods. It was noted that 2019 exhibited a 23% increase from the prior year which certainly impacted the 2%, five-year average growth figure. The average weight of each residential delivery fluctuates somewhat but is fairly consistent at approximately 70 pounds/delivery.

An 11.2% increase in residential loads was realized from the 3-year average in 2010-2012 to the 3-year average of 2021-2023. Provided a consistent upward trend, residential loads may consistently exceed 12,000 before 2030.

Materials diverted from disposal are either recycled or offered for re-use through OKC's SWAP Shop. This combined amount fluctuates from year-to-year. The five-year average (2019-2023) for diverted materials is approximately 263,700 pounds or ~35%, annually.

Recycling and re-use can offset disposal costs. Additional opportunities to eliminate or reduce these products as a waste stream will further improve the financial impact of an estimated annual increase of residential loads which may exceed 12,000 before 2030. Recycling and re-use could become much more significant in future years if diversion rates continue to increase.



OKC's special collections have been implemented since 1995. In fact, OKC has held 47 events, which served nearly 27,000 residents. Over 5 million pounds of materials have been collected during these events for proper disposal. The program has evolved over time and is now implemented once annually, typically each spring. Prior to the permanent facility opening in 2003, special collections were the primary method of receiving HHW (and other materials) from the community. HHW continued to be accepted during special collection events through the spring of 2005. The program then transitioned to accept tires during the fall of 2005, e-waste during the spring of 2007, ammunition during the fall of 2007, and finally medication in the fall of 2010. The program has been well received by the community. Analysis of historical event performance indicates spring events exceed fall events. On average, spring events exceed fall event performance in pounds received and residents served. Annual event performance exceeds bi-annual event performance in pounds of materials received but does not exceed the number of residents served.

SWMP Component 7: Public Outreach

1. Program Components:

A. Continue public education program through other agencies and associations, local developers, local businesses and industries, schools, and the public.
B. Promote the public reporting of illicit discharges and improper disposal of pollutants.
C. Continue to publicize the Oklahoma City Action Center as a hotline for reporting illicit connections, improper disposal of waste, and water quality impacts due to MS4 pollutant discharges. A list of received calls and the related reports will be maintained with the Storm Water Management Plan (SWMP).
D. Promote the proper disposal of leaves, grass clippings, and animal waste.
E. Continue participation in public events to target litter reduction.
F. Promote the proper use, application, and disposal of pesticides, herbicides, and fertilizers (PHFs).
G. Continue opportunities for public involvement and participation in implementing and updating the SWMP.
H. Assess changes in public awareness and behavior by implementing surveys, direct evaluations, interviews, or other mechanisms, and adjust educational materials and the delivery of such materials to address any shortcomings identified as a result of these assessments.
I. Provide education to targeted groups likely to have significant stormwater impacts on 303(d) impaired waters.
J. Continue to create public volunteer stewardship opportunities and events and/or partner with existing organizations to encourage residents to participate in storm water related activities.
K. Continue mandatory employee storm water training, including internal policies and procedures for engineers, specialists, inspectors, and contractors.
L. Continue to mail or email educational information to Oklahoma City's staff and contractor pesticide, herbicide, and fertilizer applicators.
M. Install an average of 500 curb markers annually using volunteers and City employees.

2. Definitions:

Schools (Elementary) – Pre-kindergarten through 5th (sometimes 6th) grade, age groups 4 -12 years of age.

Schools (Middle School or Junior High School) – schools which span 7th - 8th grade but can also span from 5th - 9th, age groups are between 11 and 16 years of age.

Schools (High School) – Grades 9th -12th, age group is between 14-18 years of age.

Volunteer Hours – Volunteer hours are actual hours worked by residents, civic organizations, businesses, or other organization at approved City activities.
Public education activities - staff participating in or distributing information via the following methods, including brochures, utility bill inserts, emails, media interviews, advertising campaigns and impressions, news broadcasts (print, radio, and TV), presentations, press releases, verbal promotions, YouTube, social media posts, newsletters, tours, training events, webinars, workshops, volunteer events, raffles and giveaways, surveys, booth displays, and city website as appropriate.

Reaching 100% of customers – Reaching 100% of customers is defined as tracking and distributing promotional print and giveaway items using brochures, utility bill inserts, emails, media interviews, advertising impressions, news broadcasts (print, radio, and TV), presentations, press releases, verbal promotions, YouTube, social media posts, newsletters, tours, training events, webinars, workshops, volunteer events, raffles and giveaways, surveys, public event booth displays, and city website as appropriate.

3. Ordinances:

Ordinance	Title	Language / Description
§57-167(9)(c)(5)	Authority of Stormwater Quality Management	Ordinance identifies the Storm Water Manager and duties authorized to comply with NPDES regulations.

4. Standard Operating Procedures:

No SOPs are available for the Public Outreach SWMP Component. However, the following SOPs are in development:

- Adopt-A-City-Street Volunteer Program
- Waterway Clean Sweep Volunteer Program
- HHW Mobile Collection Event Outreach Support
- Heart of the City Event Outreach Support
- Webinar Series
- Advertising Program
- Outreach Database Entries & Maintenance
- Rain Barrel Sale Distribution Event

In addition to SOPs, the program provides applications, program guidance packets, method instructions, participation and photo waivers, and safety instructions for various outreach efforts and programs:

- Adopt-A-City-Street Application Packet describes the program and provides an application form, terms & conditions, agreement signature page, and liaison checklist. See Appendix U.
- Adopt-A-City-Street Event Packet provides instructions to obtain event supplies, the event permit request form, release and waiver of liability form, safety tips, event sign in list, and litter collection report form. See Appendix V.
- Oklahoma City Activity Permit (Adopt-A-City-Street and Waterway Clean Sweep Program). See Appendix T.
- Waterway Clean Sweep Program Information Sheet provides a description of the program, including who can participate, what volunteers will be doing, and the location of the event. See Appendix W.
- Waterway Clean Sweep Liability Release is a liability release for volunteer participants. See Appendix X.
- Waterway Clean Sweep safety awareness information can be found in Appendix Q.

5. Resources:

Administration of the Public Outreach components for OKC is provided by the Public Works Department, Storm Water Quality Management Division. The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Public Outreach Program account provides the funding for the staff, educational efforts, and outreach messaging. The FY24-25 budget for this account is $120,121.00.

6. General Program Description:

The SWQ Public Outreach Program provides education and outreach services through various printed materials, public involvement opportunities, school visitations, adult education opportunities, workshops, webinars, involvement with associations, committees, and taskforces, among others. The program also promotes the proper management and disposal of household hazardous wastes and common household products. Various topics are used to educate residents regarding the drainage system, receiving waterways, and how the actions of residents can provide positive or negative consequences to local waterways. These subjects may include lawn management, pesticide management, nutrient management, pet waste management, spill cleanup, and reporting suspected problems. Displays at conventions, environmental workshops, and community/civic organizations are used to communicate and distribute educational materials emphasizing ways to keep pollutants out of the MS4. Another example includes articles advertising the HHWCC special collection event which are included in a utility bill newsletter at least once annually.

OKC staff members and contractors are provided annual training regarding the proper use, application and disposal of pesticides, herbicides, and fertilizers. Personnel targeted include pesticide applicators, contractors and technicians across all City Departments which provide vegetation management services.

The program provides relevant news, updates, and volunteer opportunities through a quarterly e- newsletter to a distribution list of over5,700. The SWQ web page **www.okc.gov/swq** is publicly available and provides resources such as program descriptions, maps, forms, contacts, manuals, brochures, reports, and links to applicable storm water related organizations.

Public involvement is encouraged through volunteer initiatives such as the Curbs-to-Creeks Program, Waterway Clean Sweep Program, Adopt-A-City-Street Program, and internships offered through the Storm Water Quality Management Program.

The Curbs-to-Creeks Program promotes the use of a volunteer workforce to assist the City in the installation of 500 curb markers, annually. Permitted industrial facilities, businesses, neighborhood associations, and individual residents are encouraged to participate in the Curbs-to-Creeks program and mark storm drain inlets. SWQ provides the installation supplies, data sheets, instructions, maps of local storm drains, SDS, and safety equipment needed to install the markers. The instructions, data sheet, and application form are available in Appendix M.

The Adopt-A-City-Street Program relies on a voluntary workforce to adopt and remove roadside debris from adopted segments of OKC roadway. Generally, volunteers sign a two-year commitment agreement to perform a minimum of four cleanup events each year. Volunteers are provided tools, personal protective equipment,

designated areas, and necessary paperwork.

The Waterway Clean Sweep Program uses volunteers to clean streams, wetlands, reservoirs, detention basins, and other locations. Volunteers are provided training, litter bags, personal protective equipment, tools, and paperwork. As an alternative to the contractual Adopt-A-City-Street or the adoption of a certain waterway segment, OKC offers one-time cleanup opportunities where groups can clean a designated location without agreeing to a long-term commitment.

The SWQ internship program provides an opportunity for students to ride along with storm water personnel. This "firsthand" experience is an invaluable opportunity to show participants the activities related to a MS4 permit. Interns may also be assigned specific tasks to support the work efforts of the Division.

OKC may use volunteer and collection totals from other organizations such as OKC Beautiful, neighborhood association cleanup events, or other partners. Annually, OKC Beautiful partners with OKC and the Great American Clean-up to host the LitterBlitz. Debris collected is included in Component 12. More information about these programs can be found at the following link: www.okcbeautiful.com.

Volunteer Hours

Volunteer hours are calculated by rounding up or down to the nearest 0.5-hour increment. Each volunteer present is totaled into the sum for the hours worked. All efforts are made to reflect the hours worked and staff shall track volunteers that do not work the entire scheduled work period. Volunteer value shall be calculated by using the Oklahoma volunteer value for the most recent year as published by the Independent Sector website: www.independentsector.org/resource/value-of-volunteer-time

Task	Type	Staffing	Comments
Quarterly E-newsletter	General Outreach	Assistant Environmental Protection Superintendent (1), Environmental Unit Supervisor (1), Community Relations Coordinator (1)	The Quarterly Newsletter has a distribution of over 5,700 quarterly.
School Initiatives	Youth Education	Environmental Unit Supervisor (1), Community Relations Coordinator (1), *Environmental Technician (1)	*Additional help is often required. FTP & PTP are often used to assist with school visits.

Task	Type	Staffing	Comments
Curb Markers	Public Involvement	Environmental Unit Supervisor (1), Environmental Unit Specialist (1), Environmental Technician (3), Professional Technician (2), Volunteers	SWQ staff installs the majority of markers. OKC standard specifications for Curb/Catch Basin Inlet Frame Details (D-109) require embossed message “Dump No Waste Drains to River”.
News Release	General Outreach	Environmental Protection Superintendent (1), Environmental Unit Supervisor (1), Community Relations Coordinator (1)	Several topic-specific news releases are developed and released through OKC's Public Information Office.
Cleanup Projects	Public Involvement (OKC PW Programs)	Environmental Unit Supervisor (1), Community Relations Coordinator (1), **Environmental Technicians	**Depending on cleanup type, additional staff may be utilized. Two types of cleanup programs are offered to date: Adopt-A-City-Street and Waterway Clean Sweep. To provide flexibility, one-time cleanup opportunities requiring no long-term agreement with the City are offered through both programs.
Cleanup Projects	Public Involvement (OKC Beautiful)	Environmental Protection Superintendent (1), Environmental Unit Supervisor (1), Community Relations Coordinator (1)	Obtain the volunteer quantities for OKC Beautiful’s LitterBlitz and Adopt-A-Park Programs.
Advertising Campaigns	General Outreach	Environmental Protection Superintendent (1), Environmental Unit Supervisor (1), Community Relations Coordinator (1), Private Consultants	Advertising campaigns include promoting the HHWCC, or subject matter campaigns, such the as “Everyday Environmentalist.”

Task	Type	Staffing	Comments
Special Events	General Outreach	Environmental Protection Superintendent (1), Environmental Unit Supervisor (1), Community Relations Coordinator (1), other applicable staff (when needed)	Special Events include booths at technical conferences, State Fair, trade shows, workshops, special collection events, rain barrel distribution events, and other educational events (Earth Day).

Outreach Topics and Distribution Tools:

Outreach Subject	Elementary Schools	Booths / Displays	Workshops	Presentations	Advertising Campaigns	Brochures	Utility Bill Newsletter	Quarterly E-newsletter	Press Release	Media Interview	Social Media (Facebook)	Social Media (X)	Social Media (Instagram)	City Website	Comments
Disposal of Used Motor Oil and other Household Hazardous Waste	X	X	X	X	X	X	X	X	X	P	X	X	X	X	
Adopt-A-City-Street	X	X	X	X	F	X	X	X			X			X	
Waterway Clean Sweep			X	X		F		X	X	P	X	X	X	F	
Nutrients	F			P	X	X		*X	X	X	X	X			*Spring Tips/Fall Tips
Pet Waste	X			F		F		F-P			F	F	F		
Yard Waste	X	F		F		X		*X	X		F	F	F		*Spring Tips/Fall Tips
Fecal Bacteria				X				F			F	F	F		Subject specific presentations
Erosion / Sediment	X	X	X	X		X		X						X	*Award Program / Clean Construction Recognition and E-newsletter
Heavy Metals			X												Industrial Workshop Subject
Minerals/Salts						F		*X	F				F		* Winter Tips
Storm Water Runoff (General)	X	X	X	X		X								X	

Outreach Subject	Elementary Schools	Booths / Displays	Workshops	Presentations	Advertising Campaigns	Brochures	Utility Bill Newsletter	Quarterly E-newsletter	Press Release	Media Interview	Social Media (Facebook)	Social Media (X)	Social Media (Instagram)	City Website	Comments
Hydrologic Cycle	X	X		X											
Pool Maintenance		X	X	X		X		*F	X				X		*One Time / Permit Cycle
PHFs			X	X				X							
Storm Drain / Curb Marking	X	X	X	X		X		*F						X	*Quarterly E-newsletter
Understanding TMDLs				F		F		F							Partnerships will be used to develop materials

P = Periodically
F = Future

7. Component Metrics:

The SWQ Outreach Program will implement the following measurable goals for each BMP associated with the control measures listed in Part II.A.1-2 and the table found in Part II.A.9 of the permit, in accordance with the specified target dates and frequencies. The *Control Measure* column will identify the requirements referenced in the permit, where Part II.A.1 refers to Public Education and Involvement, Part II.A.2 refers to Employee Education, and Part II.A.9 refers to the table.

Control Measure	BMP Actions	Measurable Goal
Public Education Part II.A.9	Distribute educational materials, including brochures, utility bill inserts, media spots, etc.	Reach 100% of customers each year*
Professional Education Part II.A.9 (1.a.i)	Promote implementation and maintenance of BMPs at industrial facilities	Hold one (1) Industrial Workshop each year
Professional Education Part II.A.9 (1.a.i)	Promote implementation and maintenance of BMPs at industrial facilities	Issue one (1) Industrial Training & Education e-newsletter to subscribers per year
Public Education Part II.A.9 (1.a.ii)	Promote public education on the hazards associated with illicit discharges and improper disposal of waste.	Publish one (1) social media post on proper pool draining each year

Control Measure	BMP Actions	Measurable Goal
Public Education Part II.A.9 (1.a.ii)	Promote public education on the hazards associated with illicit discharges and improper disposal of waste.	Publish one (1) social media post highlighting the OKC Action Center each year
Professional Education Part II.A.9 (1.a.iii)	Promote implementation and maintenance of erosion and sediment controls at construction sites	Offer two (2) webinars on Construction Storm Water activities each year
Professional Education Part II.A.9 (1.a.iii)	Promote implementation and maintenance of erosion and sediment controls at construction sites	Issue one (1) Construction Training & Education e-newsletter to subscribers per year
Public Education Part II.A.9 (1.a.iv)	Promote designs that minimize water quality impacts, including LID strategies	Hold one (1) rain barrel sale promotion each year to promote LID strategies
Public Education Part II.A.9 (1.a.v)	Promote the proper management and disposal of used motor vehicle fluids and HHW	Schedule one (1) advertising campaign highlighting the HHW Collection Center each year
Public Education Part II.A.9 (1.a.v)	Promote the proper management and disposal of used motor vehicle fluids and HHW	Publish one (1) article promoting the proper management and disposal of used motor vehicle fluids and HHW in the SWQ quarterly e-newsletter to subscribers once per year
Public Education Part II.A.1.a.v	Publicize a list of HHW and used motor oil recyclers and tire disposal facilities	List HHW and used motor oil recyclers and tire disposal facilities on the OKC HHW Collection Center webpage
Public Education Part II.A.9 (1.a.vi and 1.f)	Promote the proper use, application, and disposal of pesticides, herbicides, and fertilizers by the public and commercial/private applicators and distributors.	Schedule one (1) advertising campaign highlighting the HHW Collection Center each year
Public Education Part II.A.9 (1.a.ii and 1.i)	Provide public education on hazards associated with improper disposal of waste, including floatables, and advertise volunteer stewardship opportunities	Issue one (1) Volunteer News e-newsletter to subscribers annually
Public Education Part II.A.9 (1.b)	Promote the public reporting of illicit discharges and improper disposal of pollutants by conducting presentations at public events	Highlight the OKC Action Center as a resource during the annual Industrial Workshop

Control Measure	BMP Actions	Measurable Goal
Public Education Part II.A.9 (1.b)	Promote the public reporting of illicit discharges and improper disposal of pollutants by distributing brochures or utility bill inserts	Publish one (1) article highlighting the OKC Action Center in the utility bill newsletter each year
Public Education Part II.A.9 (1.c)	Publicize a mechanism used for reporting illicit connections, improper waste disposal, and water quality impacts due to pollutant discharges.	Promote reporting spills via the OKC Action Center during one (1) session of the Storm Water Quality Webinar Series each year
Public Education Part II.A.9 (1.d)	Promote the proper disposal of leaves, grass clippings, and animal waste through brochures or utility bill inserts	Publish one (1) social media post promoting the proper disposal of grass clippings each year
Youth Education Part II.A.9 (1.d)	Promote the proper disposal of leaves, grass clippings, and animal waste through youth-related educational events	Promote the proper disposal of leaves, grass clippings, and animal wastes during one (1) Enviroscape® Model Presentation with a youth audience
Public Education Part II.A.9 (1.e)	Continue participation in public events to target litter reduction using information brochures and displays	Publish one (1) social media post promoting participation in litter reduction volunteer programs by calling for volunteers
Public Education Part II.A.9 (1.e)	Continue participation in public events to target litter reduction using information brochures and displays	Promote litter reduction volunteer programs at one (1) public booth event each year
Public Education Part II.A.9 (1.e)	Continue participation in public events to target litter reduction using information brochures and displays	Promote litter reduction volunteer programs on city website with information available in multiple languages and font sizes
Professional Education Part II.A.9 (1.a.vi and 1.f)	Promote the proper use, application, and disposal of pesticides, herbicides, and fertilizers by the public and commercial/private applicators and distributors.	Hold one (1) Pesticide Workshop each year
Public Involvement Part II.A.9 (1.g)	Provide opportunities for public involvement and participation in implementing and updating the SWMP, including compliance with state and local public meeting and notice requirements	Develop a public notification process, comment receipt process, and a public meeting process for significant updates to the SWMP. Conduct this process at least once each permit term.

Control Measure	BMP Actions	Measurable Goal
Public Involvement Part II.A.9 (1.h)	Assess changes in public awareness and behavior from the implementation of surveys, direct evaluations, interviews, or other mechanisms.	Issue surveys to attendees of the annual Industrial Workshop, Pesticide Workshop, and Storm Water Quality Webinar Series each year, and address any shortcomings identified as a result of these assessments prior to the next respective training event
Public Involvement Part II.A.9 (1.i)	Create public volunteer stewardship opportunities by continuing to offer the Adopt-A-City-Street, Curbs-to-Creeks, and Waterway Clean Sweep Programs	Schedule and/or support seventy-five (75) volunteer opportunities/events per year
Public Involvement Part II.A.9 (1.i)	Partner with existing organizations to encourage residents to participate in stormwater-related activities	Collect the number of OKC Beautiful volunteer groups and individuals that participate in litter collection efforts at the end of each calendar year
Public Education Part II.A.9 (1.j)	Number of curb markers placed by City personnel	Staff, in coordination with available volunteers, will install an average of five hundred (500) embossed storm inlets/hoods markers each year
303(d) Education Part II.A.1.b	Direct education towards targeted groups likely to have significant stormwater impacts on identified 303(d) list of impaired waters	Provide information to construction or industrial permittees regarding impaired waters during inspections, workshops or webinars at least once annually.
Employee Education Part II.A.9 (2.a)	Continue mandatory employee stormwater training, including internal policies and procedures for engineers, specialists, inspectors, and contractors	Provide education on Storm Water Quality Management Division policies and procedures to city staff during annual Municipal Leadership Development class, staff meetings, newsletters, workshops or webinars at least once annually.
Employee Education Part II.A.9 (2.a)	Continue mandatory employee stormwater training, including internal policies and procedures for engineers, specialists, inspectors, and contractors	Publish one (1) article in the eNews to Know internal e-newsletter promoting the employee benefits of the Special Collection event and the HHW Collection Center annually.
Employee Education Part II.A.9 (2.a)	Continue mandatory employee stormwater training, including internal policies and procedures for engineers, specialists, inspectors, and contractors	Provide stormwater training to storm water quality staff through the Health & Safety Institute's (HSI) online Environmental Health & Safety System by requiring training twice annually.

Control Measure	BMP Actions	Measurable Goal
Employee Education Part II.A.9 (2.b)	Continue to mail or email educational information to OKC's staff and contractor pesticide, herbicide, and fertilizer (PHF) applicators	Continue issuing Storm Water Quality's quarterly e-newsletter to subscribers and include one (1) PHF-related article once per quarter. Issue an e-newsletter to OKC staff and contractor PHF applicators with relevant educational and training opportunities once per quarter. Continue and record all OKC employee presentations and training. Use Department periodicals (such as the PW – Centerline or City internal web resources) to promote storm water education.
Employee Education Part II.A.9 (2.c)	Continue training/education/certification classes for OKC's staff and contractor pesticide, herbicide, and fertilizer applicators	Hold one (1) Pesticide Workshop each year.

*Reaching 100% of customers is defined as tracking and distributing promotional print and giveaway items using brochures, utility bill inserts, emails, media interviews, advertising impressions, news broadcasts (print, radio, and TV), presentations, press releases, verbal promotions, YouTube, social media posts, newsletters, tours, training events, webinars, workshops, volunteer events, raffles and giveaways, surveys, public event booth displays, and city website as appropriate.
**Public education activities are defined as staff participating in or distributing information via the following methods, including brochures, utility bill inserts, emails, media interviews, advertising campaigns and impressions, news broadcasts (print, radio, and TV), presentations, press releases, verbal promotions, YouTube, social media posts, newsletters, tours, training events, webinars, workshops, volunteer events, raffles and giveaways, surveys, booth displays, and city website as appropriate.

8. Narrative Goals:

Provide public outreach services to educate, train, and improve environmental awareness through workshops, school programs, volunteer opportunities, and public events to increase environmental stewardship and awareness about the City's storm water programs. Public outreach may be implemented in part or wholly by Oklahoma City Storm Water Quality Management Division or other City entities. OKC may collaborate with other City MS4 programs, coalitions, private organizations, neighborhood associations, interested stakeholder groups, and educational institutions to achieve SWMP goals.

9. Cooperating Departments, Agencies, and Community Partners:

Agency	Roles / Responsibility
OKC Public Works Administration	Administration of all Public Works programs, projects, personnel, funding sources, and operations.
OKC Public Works Department, Storm Water Quality Management Division	Primary permitting, inspection, enforcement, monitoring, household hazardous waste disposal services, education, outreach, and reporting agency for

Agency	Roles / Responsibility
	OKC MS4 NPDES/OPDES compliance.
OKC Public Works Administration and OKC Public Information Office (PIO)	Responsible for all public information releases including review of applicable brochures, media announcements, educational campaigns, etc.
OKC Office of Sustainability	Educational campaigns may be distributed via the utility bill newsletter, sustainability news e-newsletter, social media, or printed promotional material. Participate in SWQ Webinar Series as speakers, and share SWQ events and programs in sustainability news e-newsletter.
OKC Utilities Department	Educational campaigns may be distributed via the utility bill newsletter, Squeeze Every Drop e-newsletter, social media, or printed promotional material. Share SWQ events and programs in Squeeze Every Drop e-newsletter.
OKC Parks and Recreation Department	PW and the Parks and Recreation Department work together to obtain permits for cleanup events (in Parks or River trust areas), and collaborate on youth educational programs.
OKC Public School System	Provide opportunities for classroom visits for SWQ personnel to provide age-appropriate water quality-based curriculum.
Oklahoma Department of Environmental Quality (ODEQ)	Primary regulatory oversight Agency.
Oklahoma Department of Agriculture, Food and Forestry (ODAFF)	Primary regulatory oversight Agency for pesticides.
OKC Beautiful	Local nonprofit offering opportunities for SWQ personnel to provide age-appropriate water quality-based curriculum and activities in youth programs such as Earth Academy and the Mother Earth Program. Provide participation metrics from the LitterBlitz litter reduction volunteer program. Participate in SWQ Webinar Series as speakers.
Central Oklahoma Stormwater Alliance, Inc. (COSWA)	Local nonprofit providing opportunities for professional training and development, and participation in public outreach events and programs. Educational campaigns may be distributed by radio, outdoor billboards, or digital advertising, as well as social media platforms, website, and e-newsletter. OKC SWQ is a member of COSWA.
Riversport OKC and River Protectors	Provide opportunities for SWQ personnel to provide age-appropriate water quality-based curriculum and

Agency	Roles / Responsibility
	activities to youth and general audiences. Collaborate with SWQ personnel to schedule public litter collection events in the Boathouse District.
Metropolitan Library System	Provide opportunities for SWQ personnel to provide age-appropriate water quality-based curriculum and activities to youth and general audiences for the Kids' Learning Club, Adventure Backpacks, and other library programs. Collaborate with SWQ personnel to offer Storytime with Wayne Drop, an OKC SWQ youth literacy and environmental education program.
Oklahoma Floodplain Managers Assoc. (OFMA)	Provide opportunities for professional training and development, and opportunities to participate in professional outreach events and programs.
Downtown OKC Partnership	Provide opportunities to participate in general audience public outreach events, such as the annual Downtown OKC Day, for multiple OKC Departments, including PW (SWQ), Utilities, and Parks & Recreation.
Lake Thunderbird Watershed Partnership	Partnership created in 2017 by the Cities of OKC, Moore, and Norman. Member cities meet quarterly to discuss programs and future opportunities. Provide opportunities to educate the general public about the Lake Thunderbird watershed through collaborative efforts, volunteer cleanup activities, and events. Partnership maintains educational street signage notifying residents when they enter or leave the watershed and a website with key educational information.
Oklahoma City-County Health Department (OCCHD)	Collaborate annually with SWQ personnel on West Nile Virus monitoring program. Program data is used to inform residents and protect them from mosquito-borne illnesses by increasing their awareness level of preventative measures.
Oklahoma Association for Environmental Education (OKAEE)	Local nonprofit providing networking system to facilitate discussion, resource sharing, and professional skill building among Oklahoma environmental educators. OKC SWQ partners with OKAEE and EcoRise to share OKC SWQ youth environmental education programs in the national Gen:Thrive Program directory.
Oklahoma Environmental Education Coordinating Committee (EECC)	Committee coordinates environmental and conservation education in Oklahoma by fostering collaborations across local, state, and federal agencies, universities, and nonprofits. Provide opportunities for professional education and participation in youth

Agency	Roles / Responsibility
	outreach events and programs.

10. Area-Specific Requirements:

Area 1: Lake Thunderbird Report for Nutrient, Turbidity, and Dissolved Oxygen TMDLs

The Lake Thunderbird Total Maximum Daily Load Compliance Plan for the Lake Thunderbird Watershed in Oklahoma City Jurisdictional Areas (September 2016) specifies certain education and outreach efforts will be accomplished within the contributing drainage areas. These efforts have been implemented or are ongoing.

- Partner and coordinate with watershed stakeholders to create a collaborative and watershed-wide outreach strategy.
- Use applicable demonstration projects for educational purposes.
- Curb-to-Creeks – mark or verify previous marker applications at the 116 identified inlets in the watershed.
- Signage – add signage which identifies the watershed and direct residents to available resources.
- Provide continuing education to OKC staff regarding methods of pollutant removal, nutrients cycles and other TMDL related subjects.
- Add language to construction and industrial workshops presentations regarding 303(d) listed streams and waterways with active or proposed TMDLs.
- Request and visit (pending school approval), schools identified in the Lake Thunderbird watershed.
- Create a web-based outreach program to address storm water pollution runoff in the Lake Thunderbird watershed.

11. Analyses:

Assessments of survey responses and program improvements are ongoing.

SWMP Component 8: Pollution Prevention / Good Housekeeping for MS4 Operations

1. Program Components:

General Provisions

A. Continue to implement, update as necessary, and enforce an Operation and Maintenance program with the goal of preventing or reducing pollutant runoff from MS4 Operations.
B. Maintain an inventory of all MS4 operations impacted by this program and all industrial facilities owned or operated by the MS4 that discharge to the MS4.
C. Implement BMPs, including sediment and erosion controls, during routine maintenance, water line breaks and emergency repairs, and after these activities are completed.

Structural Controls and Collection System Operations

A. Maintain and update a list of active drainage and structural control projects and the status of each project.
B. Continue the maintenance program of both above-and below-ground structural stormwater controls, including inspection, repair, and clean-up for detention ponds, roadside ditches, storm sewer pipes, catch basins, inlets, culverts, and pump stations.

Roadways

A. Continue to evaluate the City's street sweeping program, which includes frequency, timing, and efficiency, arterial areas, residential areas, and spot areas as necessary. Street sweeping frequency shall be based on land use, trash, and stormwater pollutant levels generated.
B. Continue to use controls for deicing and sanding activities that include storage facilities and truck washing facilities.

Flood Control Projects

A. Review Flood Management Project Designs for compliance with the City's Stormwater Criteria Manual.
B. Update the Capital Improvement Program list for OKC's current and proposed General Obligation Bond authorizations.
C. Continue to evaluate the feasibility of retrofitting existing structural flood control devices to provide additional pollutant removal from stormwater.

Petroleum and Non-Petroleum Products

A. Continue to implement and revise, as necessary, procedures for proper use, storage, and disposal of both petroleum and non-petroleum products at municipal offices, police and fire stations, pools, parking garages, and other permittee-owned or operated buildings or utilities.
B. Continue to implement and revise, as necessary, Spill Prevention and Response procedures to ensure that appropriate actions will take place when a spill occurs at an MS4 facility. Spill kits shall be maintained and accessible in highly visible locations at appropriate facilities.

PFAS Management

A. Implement measures to minimize discharges of PFAS during emergency firefighting activities and post-emergency activities, including clean-up.

B. Establish specific protocols for minimizing the resuspension, conveyance, and discharge of PFAS, both during normal operations and during all maintenance and remediation activities.

Pesticides, Herbicides and Fertilizers Application

A. Continue to implement and revise, as necessary, a program to reduce discharge of pollutants related to the MS4's storage and application of pesticides, herbicides, and fertilizers.

B. Continue to maintain and update Oklahoma City's Pesticide General Permit.

Contractor Maintenance

A. Contractually require contractors hired to perform maintenance activities on MS4 facilities to comply with all permittee(s)' stormwater control measures, good housekeeping practices, and facility-specific stormwater management operating procedures.

BMP Inspection and Maintenance

A. Implement and enforce procedures for inspection and maintenance of structural and non-structural BMPs, including maintenance activities, maintenance schedules, and long-term inspection procedures for controls to reduce floatables and other pollutants discharged to the MS4.

2. Definitions:

PFAS – per & polyfluoroalkyl substances are manufactured chemicals used in various products since the 1940s. Research continues to determine the extent and impact of PFAS related chemicals.

Spill Response – for the purpose of the storm water quality discharge permit for OKC, spill response is related to the discharge of a material or materials which may cause damage or contribute to MS4 or receiving water contamination.

3. Ordinances:

Ordinance	Title	Language / Description
57-167(a)(1-3)	Authority of Stormwater Quality Management	(a) with respect to the City's compliance with environmental laws, the Manager and the Manager's authorized representatives may do the following: (1) Carry out all inspections, surveillance, enforcement, and monitoring procedures necessary to determine compliance; administer the City's compliance with its NPDES MS4 permit to discharge from the municipal separate storm sewer system; (2) Inspect City and commercial properties for the presence of hazardous substances, and develop and administer

		whatever remediation programs are required; (3) Audit City department to determine whether the City is in compliance with Federal and State Clean Water Act laws; whether the City has obtained all permits required by Federal and State environmental laws and whether the City is in compliance with the permits it has;

4. Standard Operating Procedures:

See referenced SWMP Components.

5. Resources:

The Pollution Prevention and Good Housekeeping for MS4 Operations is partially or wholly covered by multiple components of this SWMP. This section provides reference to those programs which provide support to meet the permit requirements. Various budget ledgers are used to meet these conditions. Permit inspections and associated compliance protocols may be used, as necessary. Other provisions may be met without a permitting element, such as evaluating street sweeping but involve cross departmental coordination. Project design review, contract language, capital improvement plans, retrofitting SCMs, among others

Housekeeping and pollution prevention are a shared responsibility of all City departments. Funding may include one or more department, division, or section budget. It is beyond the scope of this document to identify all funding sources which may contribute to meeting this component.

SWQ spill response, inspections, facility audits, outreach, permitting, and personnel resources are funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses (see Component 1 – Storm Water Management Plan Document for Storm Water Drainage Utility performance).

6. General Program Description:

Section provides the relevant SWMP references to programs which support the general provisions of pollution prevention and housekeeping for MS4 operations. OKC's operations are handled with the procedures and protocol as private industry, commercial, and residential matters. Authority is granted to inspect, audit or otherwise ensure MS4 Permit compliance by ordinance §57-176 (a) (1-3).

Pollution Reduction/Prevention for MS4 Operations. Storm water-based pollutants from MS4 operations is partly or wholly addressed through Component 4 – Construction Site Activity; Component 5 – Industrial and High-Risk Runoff; Component 7 – Public Outreach; Component 8 – Pollution Prevention and Good Housekeeping; Component 9 – Roadways, Component 10 – Pesticide, Herbicide, and Fertilizer Application; Component 11 - Pollution Complaint and Spill Response; Component 12 – Floatables, and Component 18 – Total Maximum Daily Load (TMDL).

- See Municipal Construction Activities (Component 4)

MS4 Operations/Facilities. On a 5-year rotation coinciding with each MS4 Permit authorization, all City facilities/properties are reviewed for MS4 discharge potential. Through this desk-top review, a prioritized list of facilities is selected for a site visit. Field reviews will identify onsite management practice updates and/or permitting deficiencies. Facilities with elevated storm water risk will be permitted through the Industrial Program (see Component 5 - Industrial and High-Risk Runoff). Storm Water issues identified by the department will be summarized to determine training needs and applicable best practices. Workflows include the following steps:

- Primary desktop screening of all MS4 Operations;
- Site/facility inspections for locations with potential discharges;
- Applicable Industrial Discharge permitting for facilities with reasonable pollution discharge potential;
- List storm water educational/training needs based on site/facility inspections.

MS4 Maintenance/Repairs. Structural and non-structural BMPs are required for MS4 maintenance operations. Management is accomplished through department inspections/audits, education/training, complaint response, and issue follow-up to ensure proper cleanup (see Component 4 – Construction Site Runoff). Education and training materials development will be addressed partly or wholly as a part of Component 7 – Public Outreach. Sanitary sewer overflows (SSOs) are the primary responsibility of the Utilities Department. Storm Water Quality Management receives a monthly list of SSOs. Inspections are conducted at 100% of locations which are categorized as impacting the environment and 25% categorized as other impacts. Inspections identify on location needs which are communicated back to the Utilities Department.

Structural Controls and Collection System Operations. See Component 3 - Structural Controls and Collection System Operations.

Roadway Operations. Roadway operations are managed through Pollution Complaint and Spill Response (see Component 11), regional snow routes, street sweeping, bike lane sweeping, volunteer programs (see Component 7), Roadways (Component 9) and the Floatable Debris Program (see Component 12). OKC covers a geographic area of 621 square miles. Over 4,100 miles of residential and arterial roadways are maintained.

- Regional Snow routes are coordinated annually with over 30 local governments through the Associated Council of Governments (ACOG). Recent regional snow routes are located on ACOG's website which provides priority snow and ice removal routes. OKC uses salt, salt mixtures, beet juice and other materials to assist in traction control. Limited routes (~1,841 miles) reduce the use of these materials to the priority roadways. Beet juice is used as a pretreatment to increase the effectiveness of traditional control methods.
- Street Sweeping is a contracted service through the OKC Utilities Department. The Solid Waste Division manages the street sweeping contract (See Component 12-Floatables).
- Bike Lane Sweeping is contracted and also a municipal operational service. Unprotected bike lanes are routinely maintained through the Utilities Department's street sweeping contract (see Protected Bike Lane Sweeping Routes and Frequencies Map). Protected bike lanes require a specialized sweep unit which can maneuver the smaller lanes. Approximately 12.9 miles of protected bike lane infrastructure are maintained by OKC. In 2024, the Public Works Department purchased a compact sweeper to maintain bike lanes in addition to the work conducted by contacted entities. Public Works crews provide continuous sweeping of all protected bike lanes. Other community partners include the Downtown OKC

Green Team. The Green Team plays an important role by keeping the downtown areas safe, clean and a welcoming place to work, live, and visit. Funded through the Business Improvement District, the Green Team provides supplemental maintenance within six downtown neighborhoods of the Downtown OKC Business Improvement District. Services include:

- Trash and litter removal
- Street Vacuuming
- Pressure washing sidewalks
- Human/animal waste removal and sanitation
- Sticker and graffiti removal
- Special event information
- Business check-ins
- Hospitality escorts
- Homeless outreach

Flood Control Projects. See Component 3 - Structural Controls and Collection System Operations and Component 2 - Post Construction Management in New Development and Redevelopment.

Petroleum and Non-Petroleum Products. See Component 11 - Pollution Compliant and Spill Response; Component 5 - Industrial and High-Risk Runoff; and Component 4 - Construction Site Activity.

PFAS Management.

- Review existing procedures and products used for emergency services to ensure measures are in place to inform responding personnel and agencies of potential PFAS (and related compounds) are identified as a target cleanup POC. Management efforts will include:
- Internal staff education for PFAS and related chemicals
- Coordinate with Utilities, Pre-treatment Division to identify PFAS sources and potential SWQ permitting needs.
- A limited PFAS monitoring program.

Pesticide, Herbicide and Fertilizers Application. See Component 10 - Pesticides, Herbicides, and Fertilizer Applications; Component 11 - Pollution Complaint and Spill Response; and Component 16 - Illicit Discharge Detection and Elimination Program; and Component 4 – Construction Site Activity; and Component 7 – Public Outreach.

Contractor Maintenance. OKC contracts provide language for contractual services to meet any applicable local, state, and/or federal rules and requirements. Pre-work procedures, documents, and meetings require contractors to obtain applicable local, state or federal permits pertaining to their scope of work.

BMP Inspection and Maintenance. Structural storm water BMPs such as sand filtration units, bio-infiltration, pervious pavement/pavers, hydrodynamic separators, and public detention are routinely inspected. The Department of Public Works is generally the primary responsible party for inspection and maintenance of storm water BMPs. See Component 3 - Structural Controls and Collection System Operations; Component 7 – Public Outreach; Component 4 – Construction Site Activity; and Component 10 – Pollution Complaint and Spill Response.

Task	Type	Staffing	Comments
Municipal Facility Inspections	Inspection Program	Storm Water Quality Management Division	Track municipal inspection of facilities, properties, and grounds.
Municipal Construction Inspections	Inspection Programs	Storm Water Quality Management Division	Track inspections of municipal construction activities.
Municipal Construction Activities (contracted)	Inspection Programs	Storm Water Quality Management Division	Track contracted construction activity inspections for municipal funded projects.
Municipal Spill Response	Service	Public Works Storm Water Quality Management	Track municipal spill and release responses.
Municipal Operations with MS4 Discharge Potential	Service	Storm Water Quality Management Division	Each 5-year MS4 Permit authorization, list all municipal facilities, properties and grounds. Refine the list for site visits to ensure MS4 compliance.

Task	Type	Staffing	Comments
Municipal maintenance and repairs	Service	Public Works Department	Continue all infrastructure maintenance and repairs of the MS4. Report Annually.
Municipal maintenance and repair	Outreach	Public Works Department	Continue to develop materials which inform the public regarding maintenance reporting.
PFAS Management	Outreach	Public Works / Utilities Department	Develop informational material to inform the public of PFAS sources and preventative measures
PFAS Inspections	Services	Public Works / Utilities Department	Collaborate with the Utilities Department to determine potential sources which may impact the MS4

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Municipal Construction Activities	Municipal Operated Construction Activities	# of permitted municipal operated construction activities / year	No goal established; Report annually
Municipal Construction Activities – Contract	Municipal Contracted Construction Activities	# of municipal contracted construction activities permitted / year	100% of all applicable projects are 1 acre or larger.

Task	Metric	Reported Figure	Goal / Reporting
Emergency Operations	Emergency Response to Roadway Spills, Leaks and Emissions which could Impact the MS4	Metric is provided in SWMP Component # 10 Metrics – Pollution Complaint and Spill Response	See SWMP Component 11
Inspection	Municipal Facilities, Grounds and Properties	Review all Municipal Facilities	Every 5-year permit term
Inspection	Municipal Facilities, Grounds and Properties	Inspect Facilities, Grounds and Properties which impact the MS4	No goal established; Report Annually
Outreach	PFAS Outreach	Develop brochures or other informational resources to inform public	During the 5-year permit term
Maintenance	Street Sweeping (Includes routine and special sweep operations)	# Lane miles swept / year	No goals established; Report annually
Maintenance	Bike Lane Sweeping	# Bike land miles swept / year	No goals established; Report annually

8. Narrative Goals:

To provide references those programs detailed within the SWMP which provide support to the permit requirements for MS4 operations. Establish brief descriptions of programs and collaborative partners to meet pollution prevention and housekeeping requirements.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC, Public Works Department, Administration	Administration of all Public Works programs, projects, personnel, contracting, funding sources and operations.

Agency	Roles / Responsibility
OKC, Public Works Department, Storm Water Quality Division	Primary permitting, inspection, enforcement, household hazardous waste disposal services, emergency and non-emergency response to spills or discharges which impact the storm drainage system, and is the reporting agency for OKC MS4 NPDES compliance. Responsible for collaborative development of storm water outreach material to residents and MS4 operations.
OKC, Public Works Department, Streets and Drainage Maintenance Division	Responsible for maintenance of roadways and drainage systems to include construction, inspection, repair, removal or replacement of roadway related infrastructure. Reduction of hazards through response to roadway debris, poor drainage, ice and snow.
OKC, Public Information Office	Responsible for all public information releases including review of applicable brochures, media announcements, educational campaigns etc.
OKC, Department of General Services	Responsible for asset management including building and fleet maintenance. Overview includes aquatic facilities, buildings (maintenance, repair and enhancement), fleet fuel support, fleet services support, vehicle/equipment maintenance.
Municipal Contractors	Storm Water Quality maintains a list of Environmental Contractors which respond to spills, leaks or emissions which may impact roadway users' safety, health or environmental health.
OKC, Utilities Department	Charged with installation, repair and maintenance of water and wastewater infrastructure which are often located at or near roadways. Responsible for the collection of solid waste and any spills which occur on roadways from the aforementioned collection activities and systems.
OKC, Office of Emergency Management	Responsible for OKC's comprehensive emergency management program across all phases and mission areas: Preparedness, Prevention, Protection, Response and Recovery.
OKC, Police Department	Often the first on-scene responders. A basic awareness of spills or releases which may cause or contribute to human, structural or environmental damage. Police may be on-scene site command.

Agency	Roles / Responsibility
OKC, Fire Department	Charged with response to fire and other emergencies which include roadway incidents. The Fire Department is often the first on-scene emergency responders and will reduce or eliminate sources of pollution into the storm drain system. Fire may often be the on-scene site command.
State Police	Charged with the response to accidents. State Police may have on-scene site command.
Oklahoma Department of Environmental Quality	Primary oversight Agency

10. Area Specific Requirements:

See area specific requirements for Component 4 – Construction Site Runoff and Component 5 – Industrial and High-Risk Runoff.

11. Analysis:

No analysis is required for this SWMP Component.

SWMP Component 9: Roadways

1. Program Components:

Roadways

A. Continue to evaluate the City's street sweeping program, which includes frequency, timing, and efficiency, arterial areas, residential areas, and spot areas as necessary. Street sweeping frequency shall be based on land use, trash, and stormwater pollutant levels generated.

B. Continue to use controls for deicing and sanding activities that include storage facilities and truck washing facilities.

2. Definitions:

Minor Clean-up – OKC contract language for wrecker service defines a minor cleanup as a service which would consist of minor debris and fluid spills as a result of accident or vehicle/equipment breakdowns. The contracting entity will utilize other contracted vendors for larger spills requiring a HAZMAT team.

Spill Response – for the purpose of the storm water quality discharge permit for OKC, spill response is related to the discharge of a material or materials which may cause damage or contribute to MS4 contamination or receiving waters.

3. Ordinances:

Ordinance	Title	Language / Description
57-180 (a-c)	Accidental Discharges	(a) In the event of any discharge or a hazardous substance in amount which could cause a threat to public drinking supplies, a "significant spill", or any other discharge which could constitute a threat to human health or the environment, the owner or operator or the facility shall give notice to the Manager and the filed office of the Oklahoma Department of Environmental Quality as soon as practicable, but in no event later than the close of business on the day following the accidental discharge or the discharges becomes aware of the circumstances. If an emergency response by governmental agencies is needed, the owner or operator should also call 911 immediately to report the discharge. A written report must be provided within five days of the time the discharger becomes aware of the circumstances, unless this requirement is waived by the Manager for good cause shown on a case-by-case basis, containing the following particulars: 1) a reasonably precise description of the discharge, 2) the exact date and time of discharge, and 3) steps being taken to eliminate and prevent recurrence of the discharge.

		(b) The owner and operator shall take all reasonable steps to minimize any adverse impact to the Community Waters or the Waters of the State, including such accelerated or additional monitoring as necessary to determine the nature and impact of the discharge. It shall not be a defense for the discharger in an enforcement action that it would have been necessary to halt or reduce the business or activity of the facility in order to maintain water quality and minimize any adverse impact that the discharge may cause. (c) It shall be unlawful for any person to fail to comply with the provisions of this section.
58-10(f)	Wreckers	(e) Each wrecker driver dispatched to the scene of an accident shall be responsible for clearing from the street all debris existing as a result of such accident, including any ordinary vehicle fluids found at the scene of collisions and absorbing material used to absorb vehicle fluids.
27-8 (a-b)	Removal of spilled materials	(a) All material or dirt deposited on public property shall be immediately removed by either the driver or the person by whom he is employed. The failure to immediately remove all of the material or earth so deposited or spilled shall render both the driver and the person by who he is employed subject to a fine. (b) Each day that such material or dirt so waste or spilled remains on the public property shall constitute a separate and distinct offense.

4. Standard Operating Procedures:

SOP	Name	Revision
SOP # 40	Emergency and Non-Emergency Spill Response Procedures	12/1/2017

5. Resources:

Multiple resources are involved with the Roadway Operation and Maintenance SWMP component. These resources may include Federal, State and City budgets. OKC Departments involved include Public Works, Utilities, Fire, Police, and Parks & Recreation.

Roadway maintenance and improvements are funded through several OKC Department budgets and general bond obligation propositions. The General Obligation Bond (GOB) program is the most significant initiative to date regarding roadway maintenance and improvements. The 2017 GOB package is made up of thirteen propositions which cover streets & sidewalks, traffic control, bridges, drainage control, parks & recreation, economic community development, fire, police, libraries, transit, a civic center complex, city maintenance facilities and a downtown arena. Streets and sidewalks are the largest component of the bond package with $491 million dollars

allocated to those projects. The 2017 GOB authorization succeeds the 2007 GOB authorization. A temporary 27-month continuation of the MAPS3 penny sales tax was authorized for continued funding of $240 million for street resurfacing, streetscapes, trails, sidewalks and bicycle infrastructure. A permanent ¼ cent sales tax was authorized which will provide an estimated $26 million of annual funding for police, fire protection and other critical services.

SWQ spill response (see Component 11 – Pollution Compliant & Spill Response) is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management. Contracting services funding is provided through the Storm Water Program. Approximately $100,000 is budgeted for spills or other cleanups which impact the MS4 where a responsible party is not identified.

6. General Program Description:

Multiple OKC departments are charged with the aspects of roadway management. The largest proportion of roadway management is implemented by the Public Works Department. Other departments, such as Fire, Police, Utilities, and Parks & Recreation also provide services to manage safe and effective transportation routes throughout the City. Roadway storm water management includes assessment of road conditions, inspection & maintenance of roadway drainage systems, spill response and cleanup, snow and ice control, and roadway vegetative management. Debris from street and roadway surfaces can impact the capacity of the MS4 and quality of storm water discharge from the MS4. Programs such as street sweeping, bike land sweeping, curb and inlet cleaning provide bulk removal of debris. Spill response and remediation/removal are implemented by Federal, State and local emergency responders. When storm water may be impacted by spills, leaks or emissions, SWQ on-call personnel are often the on-scene coordinators for short and long-term cleanups (see SWMP Component 11, Pollution Complaint and Spill Response).

Snow and ice management can impact the MS4 and receiving waters. OKC has pre-defined snow and ice routes (regional snow routes) which were designated collaboratively with 30 local governments. These routes are the primary application areas of salt or other materials which assist in traction control, and evaporation or melting of ice and snow to reduce the risk to roadway users in OKC. The materials used to reduce the snow and ice hazards are located at two facilities in OKC, Central Maintenance Facility (3738 SW 15th Street) and the North Salt Barn (11633 North Santa Fe Avenue). These facilities are permitted through the SWQ Industrial Program and inspected for storm water compliance two times annually. The regional snow and ice routes in OKC include 111 bridges and overpasses totaling roughly 95 lane miles; and 160 street segments which include 1,841 lane miles. The OKC area snow routes map and tables are located in Appendix M. Deicing material usage varies year-to-year. The largest recent quantity of deicing materials used in OKC was recorded in 2007-2008 where 10,557 tons were applied to roadways. The 10-year average (2007-2016) is 4,137 tons/year.

The Adopt-a-City Street Program (AACS) provides opportunities for groups to adopt a 1-mile section of City roadway. Each volunteer group agrees to periodically clean their designated roadway at a frequency of four times annually. The Adopt-a-City Street component is discussed in Component 7 – Public Outreach.

City drainage maintenance crews removed a 5-year average of 94 annual tons of debris from curbs, inlets, culverts and channels from 2019-2023. This service provides for the reduction and removal of debris and other materials which can restrict or block drainage features in the community.

Street Sweeping provides an average annual removal of 3,341 tons of roadway debris (calculated using 2019-2023 reported values) with a corresponding average of 23,800 lane miles swept annually. Routes and sweep frequencies can be viewed in Appendix N.

Storm drain markers are placed along roadways to educate residents and roadway users that storm water is not treated before entering the MS4. The Curbs-to-Creeks program is discussed in Component 7 – Public Outreach.

Storm drain inlet protection, such as storm drain inserts, have been added to multiple areas along streets and neighborhood roadways. These devices capture debris and sediment before entering the inlet box and are periodically cleaned. Storm drain inlets are discussed in Component 12 – Floatables.

Task	Type	Staffing	Comments
Roadway Maintenance	Inspection Program	Public Works, Field Services Division; 44 employees	Public Works Inspectors. Furgo-Roadware software is used to evaluate and rate pavement conditions.
Curb and Inlet Cleaning	Service	Public Works Streets and Drainage Maintenance Division; Street and Drainage Maintenance Personnel (8)	Average annual removal of 467 tons of debris and sediments from OKC roadways.
Snow/Ice Management	Inspection	Inspection of snow and ice management materials; Storm Water Quality Management Division (5)	Inspect the materials storage locations twice annually.
Snow Removal	Service	Public Works Streets and Drainage Maintenance Division – Personnel based on operational demands.	Snow and ice removal is conducted on an as-needed basis. Staffing is subject to the magnitude of the event and equipment availability.

Task	Type	Staffing	Comments
Salting / Sanding	Service	Public Works Streets and Drainage Maintenance Division – Personnel based on operational demands.	Salting and sanding is conducted on an as-needed basis. Staffing is subject to the magnitude of the event and equipment availability.
Street Sweeping (routine sweeps)	Service	Environmental Technician (1), Utilities Department Contract, Contractors	SWQ conducts regular street sweeping audits. Private contractors are contracted by OKC to provide this service. ~575 lane miles are swept provided the average annual removal of 3,217 tons of debris and sediment.
Street Sweeping (Special Sweeps)	Service	Environmental Technician (1), Utilities Department Contract, Contractors	Special sweeps may be warranted at the conclusion of special events to remove debris.
Mowing and Trimming	Service	Parks and Recreation and Public Works Department	Parks and Recreation and the Public Works Department collectively maintain right-of-way and City easement
Emergency Response	Service	Fire, Police (State, local), Storm Water Quality Management, ODOT, and OTA	Emergency and non-emergency responses to spills and other emissions on local and State roadways. See Component 11 – Pollution Compliant & Spill Response
Emergency Contractors	Service	Emergency response contractors	Emergency and non-emergency cleanup operations. See Component 11 –

Task	Type	Staffing	Comments
			Pollution Compliant & Spill Response

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Emergency Operations	Salting / Sanding Operations	# Tons applied / year	No goal established; Report annually
Emergency Operations	Salt and Sanding Operations	# Lane miles to which salt and sand are applied / year	No goal established; Report annually
Emergency Operations	Salt and Sanding Operations	# Inspections conducted at materials storage facilities by SWQ inspectors annually	Two inspections at each materials storage facility/year; Report annually
Emergency Operations	Emergency Response to Roadway Spills, Leaks and Emissions which could Impact the Storm Drainage System	Metric is provided in SWMP Component # 11 Metrics	See SWMP Component #11
Inspection	Paving Inspection (Arterials)	# Miles inspected / year	No goal established; Report annually
Maintenance	Curb and Inlet Cleaning Debris Removed	# Tons removed / year	No goal established; Report Annually
Maintenance	Street Sweeping	# Tons debris removed / year	No goal established; Report annually
Maintenance	Street Sweeping (Includes routine and special sweep operations)	# Lane miles swept / year	No goals established; Report annually

8. Narrative Goals:

To provide safe and efficient driving conditions while addressing runoff quality related to roadway operations

by the application of consistent spill response, inspections and maintenance of existing City-owned roadways and support facilities.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC, Public Works Department, Administration	Administration of all Public Works programs, projects, personnel, contracting, funding sources, and operations.
OKC, Public Works Department, Storm Water Quality Division	Primary permitting, inspection, enforcement, household hazardous waste disposal services, emergency and non-emergency response to spills or discharges which impact the storm drainage system and is the reporting agency for OKC MS4 NPDES compliance.
OKC, Public Works Department, Streets and Drainage Maintenance Division	Responsible for maintenance of roadways and drainage systems to include construction, inspection, repair, removal or replacement of roadway related infrastructure. Reduction of hazards through response to roadway debris, poor drainage, ice, and snow.
OKC, Public Information Office	Responsible for all public information releases including review of applicable brochures, media announcements, educational campaigns, etc.
Municipal Contractors	Storm Water Quality maintains a list of Environmental Contractors which respond to spills, leaks, or emissions which may impact roadway user's safety, health, or environmental health.
OKC, Utilities Department	Charged with installation, repair, and maintenance of water and wastewater infrastructure which are often located at or near roadways. Responsible for the collection of solid waste and any spills which occur on roadways from the aforementioned collection activities.
OKC, Office of Emergency Management	Responsible for OKC's comprehensive emergency management program across all phases and mission areas: Preparedness, Prevention, Protection, Response, and Recovery.
OKC, Police Department	Often the first on-scene responders. A basic awareness of spills or releases which may cause or contribute to human, structural, or environmental damage. Police may have on-scene site command.

Agency	Roles / Responsibility
OKC, Fire Department	Charged with response to fire and other emergencies which include roadway incidents. The Fire Department is often the first on-scene emergency responders and will reduce or eliminate sources of pollution into the storm drain system. Fire may often have on-scene site command.
State Police	Charged with the response to accidents. State Police may have on-scene site command.
Oklahoma Department of Environmental Quality	Primary oversight Agency

10. Area Specific Requirements:

OKC Municipal Code §58-10 provides the operating rules and regulations for wrecker services. The requirements provide that each wrecker driver dispatched to the scene shall be responsible for clearing from the street all debris existing as a result of such accident, including any ordinary vehicle fluids found at the scene of collisions and absorbing material used to absorb vehicle fluids as allowed by law.

Oklahoma Administrative Code (OAC) 595:25-5-2 (for co-permitted entities ODOT and OTA ROW/easements) provides that an adequate supply of an absorbent capable of absorbing liquid spills from vehicles (not including cargo); provided, the wrecker service or wrecker operator shall not be required to pick up or dispose of the used absorbent. The recommended quantity is at least four gallons of absorbent on each wrecker vehicle. OAC 595:25-3 provides that wrecker services and operators shall be responsible for the removal of any glass or other injurious substances dropped upon the highway or highway right-of-way at the location of an accident.

11. Analysis:

No analysis is required for this SWMP Component.

SWMP Component 10: Pesticide, Herbicide, and Fertilizer Application

1. Program Components:

A. Continue to implement and revise, as necessary, a program to reduce discharge of pollutants related to the MS4's storage and application of pesticides, herbicides, and fertilizers.

B. Continue to maintain and update Oklahoma City's Pesticide General Permit.

2. Definitions:

AgPDES - Agriculture Pollutant Discharge Elimination System is administered through the Oklahoma Department of Agriculture, Food and Forestry (ODAFF). The AgPDES permit which applies to pesticide use in Waters of the United States is the *Pesticide General Permit (PGP) for Discharges from the Application of Pesticides.* This permit authorizes all discharges of pesticides to Waters of the United States that are applied in accordance with State laws and rules, the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), and the pesticide label.

Oklahoma Department of Agriculture, Food and Forestry (ODAFF) – is the primary regulatory authority of the AgPDES Pesticide General Permit for the State of Oklahoma.

Pesticide – a substance or mixture of substances intended for defoliating or desiccating plants, preventing fruit drop, inhibiting sprouting, or for preventing, destroying, repelling, or mitigating any insect, rodents, fungi, bacteria, weeds, or other forms of plant or animal life or viruses, which the State Board of Agriculture declares to be a pest, except viruses on or in humans or animals.

3. Ordinances:

Ordinance	Title	Language / Description
57-141	Scope	It is the purpose of this article to regulate the introduction of pollutants to the municipal separate storm sewer system and enables the City of Oklahoma City to comply with all applicable State and Federal laws including, but not limited to, the Clean Water Act (33 U.S.C. 1251, et seq.), the Oklahoma Environmental Quality Act (Title 27A O.S. §1-1-101, et seq.) and the stormwater regulations (40 CFR Part 122). The objectives of this article are to allow The City of Oklahoma City:

		(a) To regulate the contribution of pollutants to the municipal separate storm sewer system by stormwater dischargers by any user; (b) To control the introduction to the municipal separate storm sewer system of spills, dumping, or the disposal of materials other than stormwater; (c) to prohibit illicit discharges to the municipal separate storm sewer system; (d) to carry out all inspections, surveillance and monitoring procedures necessary to determine compliance and noncompliance with this ordinance; (e) to comply with "NPDES Municipal Stormwater Discharge Permit" conditions and any other Federal or State law pertaining to stormwater quality which the City of Oklahoma City is subject.
57-167(4)	Authority of Stormwater Quality Management	Audit the use of herbicides, fertilizers, and pesticides to determine compliance with Clean Water Act laws and to recommend alternative solutions where practicable for the reduction of their use through education and outreach programs;

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #28	Mosquito Control	10/7/2022
SOP #29	Enforcement	10/8/2018
SOP #40	Emergency and Non-emergency Spill Response Procedures	12/1/2017
SOP #49	Industrial Section	10/15/2007
TBD	Issuing an Industrial Permit	In Progress

TBD	Permitting and Inspecting Industrial Facilities	In Progress
TBD	Requirements to Permit Evaluation	In Progress
HASP	Emergency Response and Non-Emergency Response Safety and Health Plan	7/13/2021

5. Resources:

Administration of the Pesticide, Herbicide and Fertilizer Application Program components for OKC is provided by the Public Works Department, Storm Water Quality Management Division. The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management. Approximately $100,000 is budgeted for spills or other cleanups which impact the MS4 and where a responsible party is not identified.

The Environmental Water Quality Program Account provides the funding for the Pesticide General Permit. The FY24-25 budget for this account is $963,066. The educational aspects of this SWMP component are partly or wholly implemented through the Public Outreach Section. The Public Outreach Program account provides the funding for the staff, educational efforts and outreach messaging. The FY24-25 budget for this account is $120,121.

6. General Program Description:

Storm water quality management related to pesticide, herbicide and fertilizer application includes training and certification of City employees, education/outreach efforts, spill response, inhouse permitting /inspections, and proper reporting of spills or adverse impacts. OKC also implements the conditions of the AgPDES Pesticide General Permit (see Appendix C for the OKC Notice of Intent, 2023), and complies with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), and product label requirements.
The Household Hazardous Waste Collection Center provides an opportunity for residents and adjacent communities (with MOUs) to dispose of unused or unwanted pesticides and fertilizer. The HHWCC is discussed in Component 6. Education materials such as lawn management brochures, press releases, and newsletters are used to distribute information regarding the proper application and disposal of unused or unwanted pesticides and fertilizers. More information regarding these materials can be found in Component 7. Primary and secondary emergency response personnel respond to spills which involve pesticides and fertilizers. SWQ personnel are notified when surface waters or the MS4 is or may be impacted. More information on spill response can be found in Component 11.

Task	Type	Staffing	Comments
Training	Storm Water Quality Annual Pesticide Workshop	Environmental Unit Supervisor (1); Outreach Coordinator (1); Subject Matter Experts	Applicator and Technician training for City employees and contractors.
Public Outreach	Education and Outreach Materials	Environmental Unit Supervisor (1); Outreach Coordinator (1)	See Component 7

Task	Type	Staffing	Comments
Contract Administration	Administrative Control	Environmental Protection Superintendent (1); Assistant Environmental Protection Superintendent (1)	Continue reviewing City contracts to require contracted vendors to comply with the PGP requirements and storm water quality ordinances.
Pesticide General Permit	Permit Compliance	Public Works Director (1); Environmental Protection Superintendent (1); Assistant Environmental Protection Superintendent (1); Environmental Unit Supervisor (1)	Municipal Permit Compliance (and associated contractors), Spill Reporting, Pesticide General Permit Management Plan
Inspections	Service	Environmental Unit Supervisor (1); Environmental Unit Specialist (1); Environmental Technician (3)	Provide inspection of City facilities to identify materials storage areas and ensure proper BMPs and procedures are in place.
Pesticide / Herbicide Spill Response	Service	SWQ Division	See Component 11 Pollution Compliant and Spills Response

Pesticide General Permit

OKC submitted a Notice of Intent (NOI) to the EPA in February 2012 for discharges of pesticides to waters of the United States within the corporate boundaries of OKC (the pesticide management area). OKC's NPDES permit tracking number is OKG87A006. EPA authorized the ODAFF to issue agricultural-based Clean Water Act discharge permits in 2013. OKC's subsequent NPDES discharge permit are now covered under the jurisdiction of the ODAFF's Agricultural Pollutant Discharge Elimination System (AgPDES). In July 2023, OKC submitted a NOI for applicable pesticide discharges to cover an additional 5-year discharge authorization.

This permit authorizes pesticide discharges of specific pesticide use categories in certain Waters of the United States with the use of BMPs to reduce impacts associated with those discharges. Use categories include 1) mosquito and other flying insect pest control, 2) aquatic weed and algae control, 3) aquatic nuisance animal control, and 4) forest canopy pest control. OKC did not meet the qualifying application thresholds for the Mosquito and Other Flying Insect Pest Control use pattern. The 2023 NOI requested permit authorization for aquatic weed and algae control.

PGP Departments, Divisions and Authorities

Department / Authority	Division	Program
Public Works Department	Streets and Drainage Maintenance	Oklahoma River Control House Weed and Pest Control Program
Public Works Department	Streets and Drainage Maintenance	Guardrail Program
Public Works Department	Streets and Drainage Maintenance	Channel Spraying Program
Parks and Recreation Department	Grounds Management Division	Slope Spray Program and the Oklahoma River Basin
OKC Public Property Authority	James E. Stewart Golf Course, Lake Hefner Golf Course, Trosper Park Golf Course, Earlywine Golf Course, and Lincoln Golf Course	General Grounds Management
Utilities Department	Reservoirs and Canals	Reservoirs and Canals Maintenance Program

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Training	Workshop	# of Workshops/year	One annual workshop; Report Annually
Training	Workshop	# of workshop participants/year	No goal established; Report annually
Contract Administration	Ensure language is added to vegetative management contracts regarding the PGP requirements	Not reported	No goal established; Internal; Not Reported
Inventory	Inventory all municipal facilities as needed to ensure proper pesticide and fertilizer storage.	List	Report annually

Task	Metric	Reported Figure	Goal / Reporting
Facility Site Review and Permitting	Inspect applicable municipal facilities to determine inclusion into the Industrial Permitting Program	# of Inspections	Report annually
Facility Site Review and Permitting	Inspect applicable municipal facilities to determine inclusion into the Industrial Permitting Program	# of permitted municipal facilities which store pesticides and fertilizers.	Report Annually
HHWCC Services	Operate HHWCC to ensure residential disposal options for PHFs	See Component 6	See Component 6
Emergency Services	Respond to spills and emissions which may impact the MS4 or community waters	See Component 11	See Component 11

8. Narrative Goals:

Provide OKC pesticide applicators and technicians with annual training regarding the proper use of pesticides and fertilizers and provide opportunities for City employees to obtain necessary continuing education credits for applicable licenses and certifications. Developed and distribute information to the residents, businesses, and municipal employees of OKC regarding the proper use and disposal of pesticides and fertilizers. Provide identification and inspection services of municipal operations which store pesticides and fertilizers to ensure proper materials management to reduce associated storm water runoff risk. Comply with the Pesticide General Permit and conduct any reporting necessary to meet the Pesticide, Herbicide and Fertilizer Application SWMP Component. Ensure opportunities for residents to properly dispose of PHFs through the HHWCC. Respond to spills and emissions of PHFs to limit the impact to the MS4 and community waters.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC, Public Works Administration	Administration of all Public Works programs, projects, personnel, permits, funding sources, and operations. Responsible for contracting limited channel spraying.

Agency	Roles / Responsibility
OKC, Public Works Department, Storm Water Quality Division	Primary permitting, inspection, monitoring, enforcement, household hazardous waste disposal services, spill and HAZMAT response, and reporting agency for OKC MS4 NPDES compliance. Responsible for mosquito surveillance and mosquito larvicide application. Administration of the Pesticide General Permit for OKC.
OKC, Public Works Department, Streets and Drainage Maintenance	Responsible for the Oklahoma River Control House and Weed/Pest Control Program; Guardrail Program; and Channel Spraying Program. No PGP annual reporting is required. Applicators must maintain all appropriate records.
OKC, Parks and Recreation Department, Grounds Management	Responsible for the Slope Spray Program and properties at/near the Oklahoma River. No PGP annual reporting is required. Applicators must maintain all appropriate records.
OKC, Public Property Authority (Multiple Facilities)	James E. Stewart Golf Course, Lake Hefner Golf Course, Trosper Park Golf Course, Earlywine Golf Course, and Lincoln Golf Course. Responsible for the grounds management including the application of pesticides at/near waterways to control nuisance vegetation. No PGP annual reporting is required. Applicators must maintain all appropriate records.
OKC, Utilities Department, Reservoirs and Canals	Responsible for pesticide applications at/near specific infrastructure to maintain aqueduct and reservoirs free of nuisance or invasive plant specimens and algae pests. No PGP annual reporting is required. Applicators must maintain all appropriate records.
OKC – General Services	Responsible for municipal facilities and fleet management services.
OKC - Private Contractors	Responsible for the application of pesticides on behalf of OKC to control the growth of nuisance or dangerous vegetation. No PGP annual reporting is required. Applicators must maintain all appropriate records.

10. Area Specific Requirements:

Sensitive Private and Public Water Supplies (and watersheds) are not authorized by the PGP for the application of pesticides to Waters of the United States. Vegetation management at these stream segments must be controlled through mechanical methods. OKC has determined the following waterways, partly or wholly within OKC, are classified as Tier 2 or Sensitive Public and Private Water Supplies (SWS) as defined in OAC 785:46-13-4(b) (see table below). SWS designated stream segments located partly or wholly within OKC include 11 Digit Hydrologic Unit Classifications 11100303010, 11100302040 and 11090203010 (Lower North Canadian and Lower Canadian, respectively). Lake Hefner (OK620910040200_00) and Lake Overholser (OK520520000260_00) are not

considered SWS waterbodies.

Name	WBID	Type	Size	SWS
Belle Isle Creek	OK520710020160_00	R	2.23	X
Britton Creek	OK520710020070_00	R	4.72	X
Nichols Creek	OK520710020150_00	R	0.97	X
Canadian River, Deep Fork	OK520710020010_00	R	4.14	X
Canadian River, Deep Fork	OK520710020060_00	R	10.07	X
Elm Creek, East	OK520810000110_00	R	2.4	X
Elm Creek, West	OK520810000140_00	R	8	X
Guy James Creek	OK520710020140_00	R	1.97	X
Hog Creek, West Branch	OK520810000040_00	R	3.69	X
Kitchen Creek	OK520810000150_00	R	5.41	X
Northeast Creek	OK520710020110_00	R	2.46	X
Springlake Creek	OK520710020130_00	R	2.07	X
Tinker Creek	OK520710020040_00	R	1.92	X
Wynn Creek	OK520710020050_00	R	5.59	X
Arcadia Lake	OK520710020020_00	L	1820	X
Northeast Lake (Zoo)	OK520710020120_00	L	29	X
Stanley Draper Lake	OK520810000130_00	L	2900	X
Elm Creek	OK520810000100_00	R	1.44	X
Hog Creek	OK520810000030_00	R	11.89	X
Deer Creek, South	OK520510000290_00	R	4.4	X
Forest Park Creek	OK520710020100_00	R	2.69	X
Aluma Creek	OK520710020080_00	R	1.33	X
Forest Park Creek	OK520710020100_00	R	2.69	X
Belle Isle Creek	OK520710020160_00	R	2.23	X

ODAFF has approved OKC's July 11, 2023 request to authorize pesticide use on the following waterways which are located within SWS watersheds:

- Canadian River, Deep Fork (OK520710020060_00), Near NE 59th Street and Kelly Avenue, Segment Length ~1,626 feet.
- Unnamed Tributary to Deep Fork River (No WBID), near NW 35th Street and Independence Avenue, Segment Length 903 feet.
- Lake Stanley Draper (OK520810000130_00), btw. SE 89th Street and SE 149th Street east of Douglas and west of Anderson Road, 2,900 acres.

11. Analysis:

No analysis is required for this SWMP Component.

SWMP Component 11: Pollution Complaint and Spill Response

1. Program Components:

A. Continue to respond with technical support for the Oklahoma City Fire Department or other emergency responders on hazardous material spills and incidents that may cause or contribute to stormwater contamination.
B. Develop and maintain a data management system and procedures for pollution complaints and spill responses.
C. Continue investigating reported illicit discharges and eliminating non-authorized non-stormwater discharges.
D. Continue investigations of illegal dump sites to reduce chronic illegal dumping.
E. Continue sanitary sewer system inspection, repair, and cleaning program to reduce the likelihood of backups and sanitary sewer overflows.
F. Continue to conduct DWFS to identify non-stormwater flows.
G. Identify priority areas including, but not limited to, areas with a higher likelihood of illicit connections or discharges and areas with a history of illegal dumping or citizen complaints.

2. Definitions:

Illegal Dumping – Defined in §57-178(a)(1-13). No person shall conduct, allow or permit the direct or indirect discharge of any material other than stormwater into the MS4, the Community Waters, or Waters of the State.

Operator - means a person that: (1) has operational or supervisory control over the premises or equipment; or (2) has the day-to-day operational or supervisory control of activities at a work site or construction location sufficient to comply with or to ensure compliance with plan requirements and permit conditions (e.g. is authorized to direct workers at a work site to carry out activities identified in an ordinance, permit or work plan).

Persons - means any individual, partnership, co-partnership, firm company, corporation association, joint stock company trust, estate, governmental entity or any other legal entity, or their legal representatives, agents, or assigns. This definition includes all Federal, State, or local governments.

Responsible Party – are persons or operators who are responsible for the containment, removal, remediation, or reclamation of a spill or release to the MS4 or other surface waters.

Spills – shall mean any release that, in the opinion of the Director, negatively impacts the quality of water within or discharges from the City's municipal separate storm sewer system or causes damaging or deleterious effects to the City's municipal separate storm sewer system, including all structures or appurtenances and/or the waters to the storm sewers.

Spill Response – in the context of pollution prevention, a response by authorized City personnel for the purpose of:

A. Complying with the Federal Clean Water Act, the Oklahoma Pollution Discharge Elimination System Act, and the Oklahoma City Municipal Separate Storm Sewer System Oklahoma Pollutant Discharge Elimination System Permit #OKS000101 issued by the DEQ.

B. Provide technical support to the OKC Fire Department, OKC Police Department or other City, State and Federal agencies in response to a spill or release that may negatively impact the quality of water within the City's MS4 or those waters which receive discharge from the OKC MS4.
C. To assess the extent of the cleanup and assure remedial actions are adequate for the protection of the MS4.
D. To assure that proper notification requirements have fulfilled and that correct and accurate documentation is maintained.
E. To assure expedited and comprehensive remedial efforts.

Trash - means any refuse, litter, ashes, debris, paper, combustible materials, rubbish, offal or waste, or matter of any kind or form which is uncared for, discarded, or abandoned.

Wrecker – means any vehicle, other than a transport as defined in 47 O.S. §1-181, equipped with a winch, cable or other device designed to lift, pull or move a disabled vehicle incapable of self-propulsion. Wrecker does not include a vehicle with a push bumper only.

Wrecker Service – means the business of offering the service of a wrecker to tow or otherwise remove a vehicle from the place where it was disabled or impounded to a safe protected storage area in response to official calls from the City.

3. Ordinances:

Ordinance	Title	Language / Description
§57-141(b)	Scope	To control the introduction to the municipal storm sewer system of spills, dumping, or the disposal of materials other than stormwater.
§57-167(a)(5)	Authority of Stormwater Quality Management	Control the discharge of spills and the dumping or disposal of materials other than stormwater (e.g., industrial and commercial waste, trash, motor vehicle fluids, leaf litter, grass clippings, animal waste, etc.) into the MS4; provide technical support for HAZMAT response
§57-172(a-b)	Illicit Connections and Improper Disposal	(a) The Manager shall take appropriate steps to detect and eliminate illicit connections to the City Stormwater System, including the adoption of a program to screen illicit discharges and identify their sources. (b) The Manager shall take appropriate steps to detect and eliminate improper discharges, including programs to screen for improper disposal and programs to provide for public education, public information and other appropriate activities to facilitate the proper management and disposal of used oil, toxic materials, and hazardous household waste.
§57-177	Unauthorized Discharge a Public Nuisance	No person shall conduct, allow or permit the discharge of stormwater in any manner in violation of this article or of any condition of a permit issued pursuant to this article or a stormwater discharge permit issued by the State. Such

Ordinance	Title	Language / Description
		discharge is hereby declared a public nuisance and must be corrected or abated by any owner and by any operator.
§57-178	Illicit Discharge and Illegal Dumping	Ordinance describes prohibited discharges to the MS4.
§57-180	Accidental Discharges	**(a)** In the event of any discharge or a hazardous substance in amounts which could cause a threat to public drinking supplies, a "significant spill," or any other discharge which could constitute a threat to human health or the environment, the owner or operator or the facility shall give notice to the Manager and the field office of the Oklahoma Department of Environmental Quality as soon as practicable, but in no event later than the close of business on the day following the accidental discharge or the discharger becomes aware of the circumstances. If an emergency response by governmental agencies is needed, the owner or operator should also call 911 immediately to report the discharge. A written report must be provided within five days of the time the discharger becomes aware of the circumstances, unless this requirement is waived by the Manager for good cause shown on a case-by-case basis, containing the following particulars: 1) a reasonably precise description of the discharge, 2) the exact date and time of discharge, and 3) steps being taken to eliminate and prevent recurrence of the discharge. **(b)** The owner and operator shall take all reasonable steps to minimize any adverse impact to the Community Waters or the Waters of the State, including such accelerated or additional monitoring as necessary to determine the nature and impact of the discharge. It shall not be a defense for the discharger in an enforcement action that it would have been necessary to halt or reduce the business or activity of the facility in order to maintain water quality and minimize any adverse impact that the discharge may cause. **(c)** It shall be unlawful for any person to fail to comply with the provisions of this section.
§57-201	Landscape Maintenance	No person shall dump, spill, leak, pump, pour, emit, empty, discharge, leach, dispose, or otherwise introduce or cause, allow, or permit to be introduced any substances into the MS4 (Municipal Separate Storm Sewer System) other than stormwater, including without limitation the following common substances: (1) garbage; (2) rubbish; (3) yard waste; (4) sediment; (5) floatable materials.

Ordinance	Title	Language / Description
§58-10(f)	Wreckers	Each wrecker driver dispatched to the scene of an accident shall be responsible for clearing from the street all debris existing as a result of such accident, including any ordinary vehicle fluids found at the scene of collisions and absorbing material used to absorb vehicle fluids.
§50-5	Obstruction of Streets	**(a)** No person shall leave, place or deposit, or cause to be left, placed or deposited, in, upon or across any pavement, sidewalk, or public way any article, object, or structure, or thing that will obstruct or otherwise encumber the same, unless expressly provided by ordinance or expressly authorized by revocable permit approved by the Director. **(b)** No public right-of-way shall be closed or traffic restricted by barricades or fences or other structures except in accordance with a permit issued by the Director, except in cases of emergency or by direction of the Police Department. Any person who proposes to restrict access to any portion of the public right-of-way, for any reason other than actual emergency or a procession escorted by a police officer, shall submit a written request to the Director, and provide such information as may be requested in support of such request. No person shall restrict access to the public right-of-way pursuant to a permit after the permit has been revoked or has expired by its own terms. All such permits shall be limited in duration and may only be extended by the Director upon written request. **(c)** Any violation of an order to open the right-of-way after revocation or expiration of a permit that allowed a restriction of access to the public right-of-way shall be a Class "b" offense.
§50-8	Refuse on Sidewalk	**(a)** No property owner, occupant, or agent of any property that abuts or adjoins any street or avenue shall allow or permit any animal or vegetable substance, or any tin, glass or pieces of iron or any trash, mud, snow, ice, dirt, slop, refuse matter or filth of any kind or description whatever to accumulate or remain on any part of the sidewalk abutting or adjacent to the premises owned or occupied by the person. **(b)** No property owner, occupant, or agent of the property shall fail or refuse to clean the sidewalk abutting or adjacent to the property owned or occupied by him within 24 hours after notice to clean the property is served on him by any police officer, sanitary officer, sidewalk superintendent, or any other agent of the City.

Ordinance	Title	Language / Description
§50-9	Spilling Oil on Streets or Public Grounds	**(a)** No person owning or operating automobiles, garages, oil trucks, oil depots or any other place or thing at or from which oil is bought, sold, or used, shall spill, allow or cause to be spilled upon the streets or any other public grounds oils or any other fluid of any character that would cause injury to the pavement. **(b)** In addition to the penalty imposed in Section 1-6, upon conviction of violating Subsection (a) of this section the person actually committing the act and his employer shall be jointly and severally liable for the damage caused.
§35-2	Abatement by the City - Authorized	The Council shall have power to abate any nuisance described in the provisions of this article by causing any lot or piece of ground to be filled up or drained, and any animal or vegetable refuse matter or any putrid or unwholesome substances to be removed and any cellar, stable, henhouse, dog kennel, or any place where animals are kept or any toilet or privy vault to be thoroughly cleaned and put in good sanitary condition.
§35-5	Abatement at Owner's Expense	**(a)** If the owner, occupant or person in control of any lot or piece of ground shall fail, refuse or neglect, after the service of notice as provided in Section 35-4, to comply with the resolution within the time specified, the City shall then proceed at once to abate the nuisance. **(b)** An accurate account of the cost or proportionate cost of the abatement shall be kept with reference to each lot or piece of land, and certified to the Council, and the Council shall by ordinance levy and assess the cost or proportionate cost, including the cost of publication and other fees and cost necessarily incident thereto, against each lot or piece of ground chargeable therewith, as a special assessment, and the City Clerk shall certify the assessment to the county clerk for collection as other special taxes are collected.
§35-103	Removal of Trash Required	It shall be unlawful for any owner or occupant of any lot, tract or parcel of land to allow trash to accumulate or exist upon such premises, or along the unpaved streets, unpaved alleys or public easements adjacent to such premises, and it shall be the duty of such owner or occupant to remove any and all trash on such premises.
§49-58	Dumping Residential or Commercial Municipal Solid Waste in Approved Areas	No licensed trash hauler shall discharge, dump or empty any contents of any vehicle regulated by this article except at a location duly approved by the City and legally operated for that purpose.

Ordinance	Title	Language / Description
§38-90	Fires and grills	No individual shall make a fire in any park except in places provided for such purposes. Charcoal grills used for the specific purpose of heating and/or cooking food are permissible. Dumping or disposing of ashes or coals on park grounds or in trash barrels is prohibited.
§27-1	Definitions	The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning: *(1) Litter* means garbage, refuse, rubbish, dirt, trash, and all like material. (2) *Refuse* means all putrescible and nonputrescible solid wastes, including ashes, dead animals, solid market and industrial wastes and other similar materials. (3) *Rubbish* means nonputrescible solid wastes consisting of both combustible and noncombustible wastes, in solid or semisolid form, including, but not limited to, ashes or incinerator residue, street wastes, demolition wastes, industrial wastes, tin cans, wood, leaves, glass, pieces of iron and other metals and other similar materials. (4) *Trash* means any refuse, litter, ashes, leaves, debris, paper, combustible materials, rubbish, offal, waste, or matter of any kind or form which is uncared for, discarded or abandoned. (5) *Vehicle* means every device in, upon, or by which any person or property is or may be transported or drawn.
§27-2	Prohibited generally	(a) No person shall throw or abandon litter upon any public property or private property except as specifically provided for in this chapter. (b) Any person who violates this section shall be guilty of a Class "a" offense against the City. For any second or subsequent offense and upon proof of conviction, said person shall be guilty of a Class "b" offense.
§27-3		(a) No driver or operator of a vehicle shall throw, permit to be thrown or abandon any litter upon public or private property.

Ordinance	Title	Language / Description
		(b) No vehicle shall be driven or moved on any roadway unless such vehicle is so constructed or loaded as to prevent any of its load from dropping, shifting, leaking, blowing or otherwise escaping therefrom, except that sand may be dropped for the purpose of securing traction, or water or other substances may be sprinkled on a roadway in cleaning or maintaining such roadway. (c) No person shall operate on any roadway any vehicle with any load unless said load and any covering thereon is securely fastened so as to prevent said covering or load from becoming loose, detached, or in any manner a hazard to other users of the roadway. Any vehicle loaded with sand, cinders or other loose material susceptible to blowing or escaping by reason of wind shall have such load covered or dampened so as to prevent the blowing or escaping of said load from the vehicle. (d) No person shall operate, or cause to be operated, a vehicle, any part of which is covered or laden with dirt, mud, clay or other material from any construction, excavation, parking or other site, in such a manner or condition that the material will become tracked or shall fall upon the roadway; provided, however, that the provisions of this section shall not apply to persons who must enter upon improved or paved roadways from unimproved or nonpaved roadways or residential driveways. (e) There shall be prima facie presumption the registered owner of a vehicle committed a violation. In any prosecution charging a violation of this section, proof that the particular vehicle described in the complaint was used for the purpose of unlawfully throwing or abandoning litter as prohibited therein together with proof that the individual named in the complaint was at the time of the violation the registered owner of said vehicle shall constitute in evidence a prima facie presumption that the registered owner of said vehicle was the person who committed the violation. (f) Any person who violates this section shall be guilty of a Class "a" offense against the City. For any second or subsequent offense and upon proof of conviction, said person shall be guilty of a Class "b" offense

Ordinance	Title	Language / Description

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #40	Emergency and Non-emergency Spill Response Procedures	12/1/2017
HASP	Emergency Response and Non-Emergency Response Safety and Health Plan	7/13/2021

5. Resources:

Administration of the Pollution Complaints and Spill Response Program components for OKC is provided by the Public Works Department, Storm Water Quality Management Division. The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management. Contracted services funding is provided through the Storm Water Permitting Program. Approximately $100,000 is budgeted for spills or other cleanups which impact the MS4 and where a responsible party is not identified.

6. General Program Description:

Spills, leaks and hazardous materials incidents are commonly reported in OKC. The Storm Water Quality Division of the Public Works Department is charged with technical assistance response to these incidents as primary or secondary responders. The Pollution Complaint and Spills Response Program is reported and responded to through multiple sub-programs: OKC Action Center Requests; Pollution Source Reports; HAZMAT and technical response to spills or leaks; Dry Weather Field Screening; construction source investigations; SSO follow-up investigations; special event/revocable permit inspections; and reports to the Public Works Director through the Public Works Response Manager system. Staff objectives include preventative planning, inspections, ensuring proper cleanup of materials and waste, proper disposal of the wastes, reduction of downstream waterway risk, and proper documentation. Staff are on-call 24 hours per day, 365 days per year.

Notification of incidents may be provided by the Oklahoma City Fire Department, Oklahoma City Police Department, State Police, State/Federal Agencies (such as DEQ, Oklahoma Corporation Commission, ODOT, OTA, USFW, ODWC, and others), Oklahoma City Action Center, Oklahoma City contractors, and other Oklahoma City staff (such as Public Works, Utilities, Parks & Recreation, General Services, etc.).

Task	Type	Staffing	Comments
Spill Response	Service	Environmental Protection Superintendent (1), Assistant Environmental Protection Superintendent (1), Environmental Unit Supervisor (5), Environmental Unit Specialist (4), Environmental Technician (16)	Respond to reported spills, emissions and discharges to eliminate, reduce, and remove potentially harmful substances or material from public properties, easements and rights-of-way to protect downstream waterways. Staff generally include one Environmental Unit Supervisor or Environmental Unit Specialist, and one Environmental Technician on-call on a rotating schedule.
Spill Response	Service	Same as above	Ensure proper disposal of collected waste or materials. Staff are on-call on a rotating schedule. Private contractors may be used to remediate spills with no responsible party.
Spill Response (Responsible Party)	Service	Same as above	Ensure the identification of a responsible party and provide oversight of any cleanup actions necessary to eliminate or reduce the risks to the MS4 and downstream waterways. Responsible parties are provided with a State approved list of contractors. SWQ personnel observe remedial actions to ensure proper cleanup.
Spill Response (No Responsible Party)	Service / Contracting	Same as above plus environmental cleanup contractors	Ensure proper cleanup if no responsible party is identified. Approved private contractors may be used to remediate spills with no responsible party.

Task	Type	Staffing	Comments
Ensure Proper Notification of Relevant Agencies	Service	Environmental Protection Superintendent (1), Assistant Environmental Protection Superintendent (1), Environmental Unit Supervisor (5), Environmental Unit Specialist (4)	Ensure notification and documentation of applicable local, State and Federal agencies, when necessary.
Ensure Proper Documentation of Event	Data	Environmental Protection Superintendent (1), Assistant Environmental Protection Superintendent (1), Environmental Unit Supervisor (5), Environmental Unit Specialists (4), Environmental Technician (16)	Data is entered into an access/SQL database. Relevant spill information, pictures, scanned field notes, business cards, and laboratory reports are filed on the OKC network and database.

OKC provides a one-stop citizen assistance office. Citizens can contact (call, report online, email, text, or report through social media) the OKC Action Center to report problems, including pollution concerns. These reported concerns are forwarded to the appropriate Department to address the issue. SWQ may be notified by phone or email. The request is tracked and upon resolution, a letter is sent to the reporting party, if requested, to notify them that the City is addressing the reported issue.

Other pollution concerns are reported directly to SWQ as Pollution Source Investigations. This program functions to reduce the number of illicit discharges by investigating each report, enforcing ordinances, and requiring responsible parties to respond to spills for proper cleanup.

SWQ field personnel and supervisors are 40-hour HAZWOPER certified and respond as technical support to the OKC Fire Department and other emergency responders. Personnel are on-call 24 hours a day to respond to spills, discharges or other events which may cause or contribute to accidental or illicit discharges to the

MS4 or other waterways. Results include effective isolation, containment, removal, or remediation of spilled or released products or waste materials. A HAZMAT Employee Rotation List is maintained by the Division. Adjustments to this response schedule may be required throughout the year for personnel changes or other demands. This list provides information regarding the on-call personnel and environmental contractors serving on a rotational basis.

OKC uses the State Contract for environmental services. Each contractor must meet a 30-minute response time to be used for environmental cleanup purposes. Environmental cleanup contractors are updated each July and December. OKC SWQ also maintains a list of Local State Licensed Highway Spill Remediators which are provided to a responsible party, when applicable. This list is also updated in July and December and shared with applicable City departments.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Spill Response	Number of Spill/Emergency Reponses	Number/year	Demand based; Report annually
Action Center Responses (including Resident Requests)	Number of Action Center Responses	Number/year	Demand based; Report annually
Pollution Source Response (Environmental, Construction, and Pollution)	Number of Pollution Source Responses	Number/year	Demand based; Report annually
In-house Report Responses (Council Support, Director Requests, Division Head Requests, and Engineering Requests)	Number of In-house Request Responses	Number/year	Demand based; Report annually
Public Works Response Manager Requests	Number of Reponses Manager Request	Number/year	Demand based; Report annually

8. Narrative Goals:

To provide technical assistance to various entities (including co-permitted entities with appropriate interjurisdictional agreements in good standing) to ensure proper and efficient control of spills and discharges which may cause or contribute to infrastructure damage and/or receiving water resource degradation. Provide trained personnel and other resources 24/7/365 to investigate, document and provide technical support to isolate and remove accidental or intentional discharges to the MS4 or receiving waters. Provide pollution investigation

services support for the OKC Action Center, residential concerns and Public Works Response Manager requests. Ensure appropriate documentation of spills, fish kills, and other pollution related events. Provide adequate communications to stakeholders and other local, State or Federal oversight entities. Ensure a funding source which establishes financial assurance for spills where no responsible party is identified.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC, Public Works Administration	Administration of all Public Works programs, projects, personnel, funding sources, and operations.
OKC, Public Works Dept. Storm Water Quality Division	Primary permitting, inspection, enforcement, household hazardous waste disposal services, spill and HAZMAT response, and the reporting agency for OKC MS4 NPDES compliance.
OKC, Public Information Office	Responsible for all public information releases including review applicable brochures, media announcements, educational campaigns, etc.
Municipal Contractors	OKC utilizes the State contract for spills, leaks or other events in which materials or wastes must be recovered from City properties or where no responsible parties can be identified. Responsible parties are provided a list of ODEQ Local State Licensed Highway Cleanup Contractors, when needed.
OKC, Utilities Department	Responsible for spills or leaks from Utility fleet including Solid Waste, Water/Wastewater operations, and other misc. services.
OKC, Utilities Department	Responsible for spills and leaks from public sanitary sewer collection and treatment systems. Responsible for spills and leaks from public potable water distribution and treatment systems. Responsible for declarations of public nuisances related to sanitary sewer discharges.
OKC, Public Works Dept., Streets and Drainage Maintenance Division	Streets and Drainage maintenance are responsible for leaks, spills, or emissions from activities or fleet vehicles. Provide assistance for spills impacting the Oklahoma River and provide traffic control or other barricades/signage needed to isolate the area(s) impacted by spills on City easement and right-of-way.
OKC, Public Works Dept., Traffic Engineering & Management Division	Traffic Management is notified regarding incidents which may block or impede traffic. Division also provides design and construction of traffic and other informational roadway signage (including No Prohibited, AACS, and other watershed signage).
OKC, Fire Department	Primary responders to incidents. The OKC Fire Department is often incident command until hazards are reduced to levels which the cleanup personnel can initiate remediation efforts.
OKC, Police Department	Primary responders to incidents. Police are in place to assist control of the incident including investigation, immediate traffic

Agency	Roles / Responsibility
	management, crowd control, etc. Police may be the on-scene incident command.
State Police	Often the primary responders at highway accidents. The State Police may be the on-scene incident command.
Oklahoma Turnpike Authority	Primary authority on Turnpike properties in OKC. OKC coordinates with OTA and other parties to ensure proper cleanup and protection of the MS4 and receiving waters. OKC SWQ authority is based on Memorandum of Understanding between OTA and OKC.
. Oklahoma Department of Transportation	Primary authority on ODOT properties. OKC coordinates with ODOT and other parties to ensure proper cleanup and protection of the MS4 and receiving waters. OKC SWQ authority is based on Memorandum of Understanding between OKC and ODOT.
Oklahoma, Cleveland, Pottawatomie, Canadian and Logan Counties	Spills may occur on properties, easements and right-of-way which are owned and operated by a County. In those cases, SWQ will work with County officials to ensure proper cleanup and protection of the MS4 and receiving waters.
National Response Center	Agency which must be notified when reportable quantities are discharged to Water of the United States.
Oklahoma Department of Environmental Quality	Primary MS4 Permit OPDES oversight Agency. Agency involvement varies and may be the primary environmental agency or oversight Agency. OKC reports major incidents to DEQ. Lead agency which informs the "Local State Licensed Highway Spill Remediators" list.
Oklahoma Department of Agriculture, Food and Forestry	Primary oversight of the Pesticide General Permit (PGP). Current PGP requires reporting of applicable "uncontained spills" of more than 10 gallons liquid or 25 pounds dry weight of pesticide concentrate or 50 gallons of an application mixture (tank mix) with 24 hours by telephone and by written notice within three days to DEQ and ODAFF.

10. Specific Area Requirements:

OKC's AgPDES Pesticide General Permit authorization, effective March 26, 2023, provides certain pesticide use activities are authorized to Waters of the United States provided permit requirements are met. The PGP does not authorize discharges which are considered specific area requirements including:

- Discharges containing pesticides or restricted use pesticides to waterbodies which have suspected causes of impairments listed which that pesticide or its degradate is identified in the latest 303(d) list. Note: for the purpose of the PGP, impaired waters include those waters with a TMDL.
- Discharges which are likely to have unauthorized adverse effects upon threatened or endangered species, critical habitats as determined in conjunction with the US Fish and Wildlife Service.
- Discharges which adversely affect properties listed or eligible for listing in the National Register of Historic Places (unless in compliance with the National Historic Preservation Act).
- Discharges to waters designated as Outstanding Resource Waters, High Quality Waters, or

Sensitive Public and Private Water Supplies.

OKC requested and was authorized by ODAFF to discharge to the following waterway sections which are considered "existing discharges" (discharges prior to June 11, 1989), have site conditions which exclude mechanical vegetative control, or have an invasive species which requires pesticide management to manage populations including:

- Unnamed Tributary to Deep Fork River near NW 36th Street and Independence Avenue.
- Deep Fork River near NE 59th and Kelly Avenue.
- Lake Stanley Draper, a 2,900 acres reservoir, between SE 89th Street and SE 149th Street east of Douglas and West of Anderson Road.

11. Analysis:

No analysis is required for this SWMP Component.

SWMP Component 12: Floatables

1. Program Components:

A. Maintain at least 25 floatable monitoring structures for capture and categorization of floatables and continue removal of floatable materials and maintenance at a frequency necessary for proper operation of the removal structures.
B. Document all floatable debris removal in cubic yards and include categorization of constituents.

2. Definitions:

Floatable Debris – floatable and semi-floatable materials composed of natural or manmade products which can cause objectionable impacts to the economic, ecological, and other intrinsic values of a waterway. The BEACH Act of 2000 defines floatable materials as any foreign matter that may float or remain suspended in the water column. The term includes plastic, aluminum cans, wood products, bottles and paper products.

3. Ordinances:

Ordinance	Title	Language / Description
§57-141(d)	Scope	…to carry out all inspection, surveillance and monitoring procedures necessary to determine compliance and noncompliance with this ordinance;
§57-167	Authority of Storm Water Quality Management	(a) with respect to the City's compliance with environmental laws, the Manager and the Manager's authorized representatives may do the following: (1) carry out all inspections, surveillance, enforcement, and monitoring procedures necessary to determine compliance; administer the City's compliance with its NPDES MS4 permit to discharge from the municipal separate storm sewer system;…
§57-171	Monitoring	The Manager shall monitor the quantity of, and the concentration of pollutants in stormwater discharges from the areas and locations as designated in the Oklahoma City Storm Water Management Plan.

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #20	Floatable Debris Monitoring	4/22/2024
SOP #34	Data Quality	9/15/2023
SOP #50	Instructions for Recording Field Information	10/11/2022
SOP #54	Storm Drain Insert Monitoring and Maintenance	In Progress

5. Resources:

Floatable debris removal is primarily funded by the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Environmental Water Quality Program account provides the funding for the Floatable Debris Program netting program administered through the SWQ Division. The FY24/25 budget for this account is $963,066.

The Public Works Department's Facilities Project Management Division, Oklahoma River Maintenance Section provides sediment removal services, levee inspection, dam repairs and operation. The FY24/25 budget is $1,335,598.

6. General Program Description:

The Clean Water Act, as amended by the Water Quality Act of 1987, required the USEPA to treat storm water as a point source of pollution. Under Phase I and II of the National Pollution Discharge Elimination System Storm Water Program, EPA issued regulations to certain municipalities and industries to obtain permits. The permit requirements set forth the efforts currently in place by OKC to monitor and control floatable debris. The floatable debris management program includes several City programs and volunteer initiatives. Major program components include the Oklahoma River corridor debris management efforts by the PW Oklahoma River Maintenance section, PW SWQ Division Floatable Debris Program, Utilities Department contracted street sweeping (see Component 8), Public Works Department curb, culvert and storm drain catchment cleanout (Component 8). OKC provides floating debris control through other efforts such as PW Adopt-a-Street Program & Waterway Cleanup Program (see Component 7), Utilities Department recycling and solid waste management programs, and Parks & Recreation Department's general grounds maintenance programs. Other organizations such as OKC Beautiful, neighborhood associations, and homeowners associations provide additional debris removal. OKC continues to work with those organizations to report volunteer numbers, hours worked, and total debris collected. Floatables are additionally addressed through municipal storm water discharge permits at construction sites and industrial facilities (see Component 4 and Component 5). Collectively, these programs significantly reduce the amount of floatable material discharged to the MS4.

SWQ has used several capture methods to remove floatables from the MS4. Netting can be highly productive, however collection of the captured debris is time consuming and at times hazardous. Storm drain inlets of various types have been deployed in the field for three permit cycles. Although productive, the amount of floatable debris captured is typically less than netting structures on an individual storm event basis. Debris barriers have been installed along certain tributaries and outfalls within the Oklahoma River basins. These barriers effectively hold debris which has accumulated until City crews can collect and properly dispose of the materials.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Monitoring	Number of Floatable Debris Monitoring Stations	# Active floatable debris stations/year	Maintain a minimum of 25 stations; Report annually
Monitoring	Weight of Debris Removed from MS4	Pounds removed / year	No goal established; Report annually
Monitoring	Volume of Debris Removed from MS4	Cubic yards removed/year	No goal established; Report annually
Monitoring	Number of Site Visits for the Collection of Floatable Debris	# Site visits/year	Minimum of one site visit for at least 25 stations;5 Report annually
Monitoring	Number of River Debris Barriers	# of active river debris barriers.	Maintain 27 barriers; Report annually
Monitoring	Volume of Debris Removed from the Oklahoma River	Cubic yards of materials removed from the Oklahoma River corridor / year	No goal established; Report annually
Volunteer (Waterway Clean Sweep Program)	Number of Events	Number of Events	Host 10 events/year; Report annually
Volunteer (Waterway Clean Sweep Program)	Pounds of Debris Removed by Volunteers	Pounds of debris removed by volunteers / year	No goal established; Report annually
Volunteer (Waterway Clean Sweep Program)	Number of Bags Removed by Volunteers	# Bags removed by volunteers/year	No goal established; Internal report only
Volunteer (Waterway Clean Sweep Program)	Calculated Value of Volunteer Work	$ value of volunteer work/year	No goal established; Internal report only
Volunteer (Waterway Clean Sweep Program)	Number of Volunteers	# Volunteers	No goal established; Report annually
Volunteer (Adopt-a-Street Program)	Pounds of Debris Removed by Volunteers	Pounds of debris removed by volunteers/year	No goal established; Report annually

Task	Metric	Reported Figure	Goal / Reporting
Volunteer (Adopt-a-Street Program)	Number of Bags Collected by Volunteers	# of bags collected by volunteers/year	No goal established; Internal report only
Volunteer (Adopt-a-Street Program)	Calculated Value of Volunteer Work	$ value of volunteer work/year	No goal established; Internal report only
Volunteer (Adopt-a-Street Program	Number of Volunteers	# Volunteers	No goal established; Report annually
Community Partners	Pounds of Debris Collected	Pounds debris collected/year	No goal established; Report annually
Community Partners	Number of Volunteers	# Volunteers	No goal established; Report annually
Maintenance	Number of Active River Debris Barriers	Number of barriers active during the permit year	Maintain 27 barriers; Report annually
Maintenance	Number of River Debris Barriers Assessed / Replaced	Number of Oklahoma River debris barriers replaced during each assessed permit year	No goal established; Report annually

8. Narrative Goals:

Meet MS4 permit objectives to install, monitor, and maintain floatable catchment structures at a minimum of 25 stations, annually. Report annual collection figures for debris removed as a measure of volume and weight. Characterize debris removed to inform outreach efforts and modify debris management procedures.

OKC annually exceeds the minimum requirements and continues to evaluate other methods of collecting floatable debris. A secondary objective of the program is to review all City efforts which involve the collection and removal of these materials. OKC currently uses outfall/channel netting, storm drain inserts, catch basin cleanouts, in channel maintenance operations, floating barriers, marine and terrestrial maintenance, hydrodynamic separators, street sweeping, and volunteer programs to manage floating debris. Continued opportunities through new technologies will be sought to provide floatable debris control in larger drainage areas. Funding sources, such as the Drainage Utility and General Obligation Bond, will be sought to implement additional structural controls and to purchase associated maintenance equipment.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC Public Works Administration	Administration of all Public Works programs, projects, personnel, funding sources and operations.
OKC Public Works, Streets and Drainage Maintenance Division	Responsible for maintenance of City streets, other ROW and easements, detention and certain drainage areas.
OKC, Public Works Dept. Storm Water Quality Division	Responsible for the implementation of the MS4 Permit required Floatable Debris Program, collection & categorization of debris, inspection & replacement of river debris barriers, identification of BMPs to manage floating debris, development of outreach materials & campaigns, management of the Waterway Clean Sweep and the Adopt-a-City-Street volunteer programs, and reporting all relevant floatable management programs to City Management and is the primary reporting agency for OKC MS4 NPDES compliance.
OKC, IT Department	Responsible for internal technology programs including data storage, databases, telemetry, cellular capabilities and internet-based resources.
OKC Public Information Office	Responsible for all public information releases including review applicable brochures, media announcements, educational campaigns, etc.
Municipal Contractors	The Utilities Department contracts Street Sweeping at designated streets in Oklahoma City.
OKC, Utilities Department Solid Waste Division	Administration of programs to control and properly dispose of, recycle, and reduce solid waste from residents and businesses in OKC. Utilities is also responsible for managing the OKC street sweeping contract.
Residents and Businesses	Homeowners/Neighborhood associations, businesses, and industries are significant contributors to floatable debris control in OKC. Through neighborhood cleanup events, waterway cleanup events, and the Adopt-a-Street program, residents can provide significant debris removal.

Agency	Roles / Responsibility
Parks and Recreation, Grounds Management	Responsible for the general upkeep of certain City properties, easements and rights-of-way. This upkeep may include mowing and debris removal.
Oklahoma Department of Transportation	Co-permitted with the City of Oklahoma City.
Oklahoma Turnpike Association	Co-permitted with the City of Oklahoma City.
Oklahoma Department of Environmental Quality	Primary oversight Agency. ODEQ approves the Floatable Debris SWMP Component and requires OKC to report program results annually.

10. Area Specific Requirements:

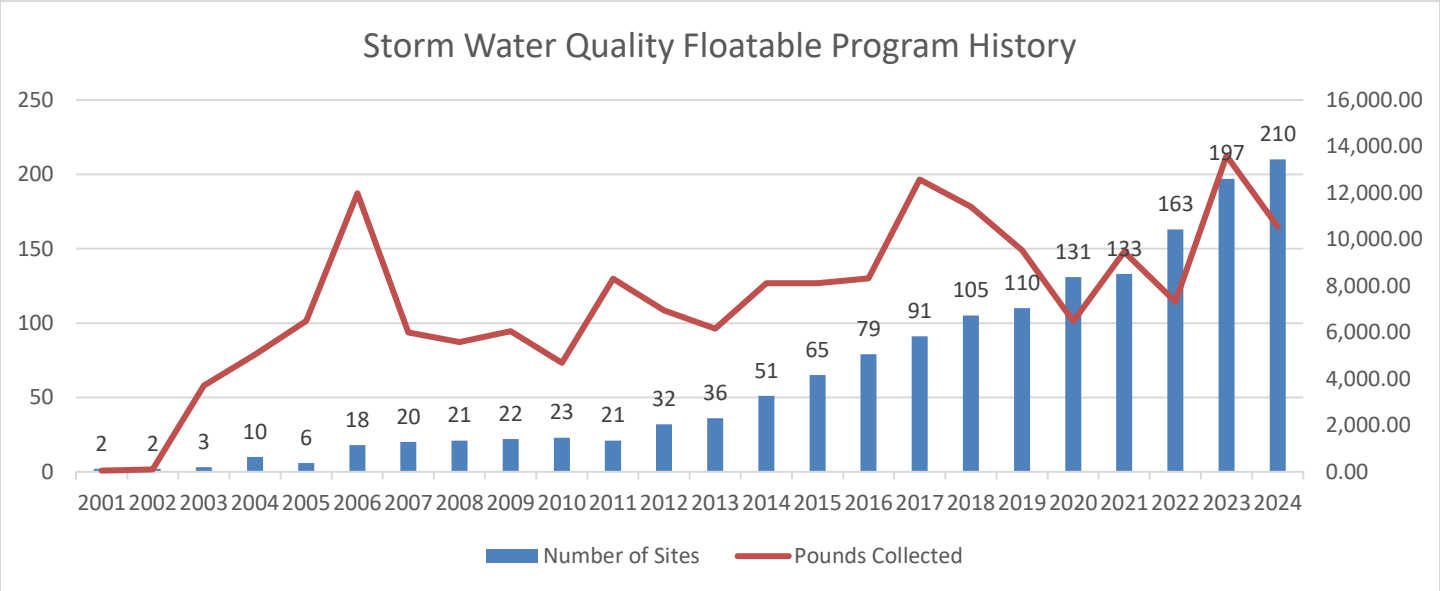
Per the OKC Lake Thunderbird Compliance Plan, 5 new storm drain inserts must be installed annually (not to exceed a total of 166 stations in the watershed).

11. Analysis:

OKC has implemented the Floatable Debris Program since 1995. Methods of collection have included the use of cross channel netting, outfall netting, storm drain inserts, debris barriers, maintenance programs, and volunteer efforts. Permit requirements have increased with each permit authorization. In response, OKC has increased the number of stations and subsequently the quantity of debris collected.

A. Storm Water Quality Floatable Debris Program

Historical analysis of the data collected from permit year 2001 through 2023 indicates an increase in the number of floatable stations monitored and a general increase in pounds of debris collected.



Year	*Number of Sites*	*Pounds Collected*
2012	32	6952.41
2013	36	6163.01
2014	51	8115.67
2015	65	8121.13
2016	79	8319.46
2017	91	12,581.90
2018	105	11,401.40
2019	110	9,538.21
2020	131	6,474.11
2021	133	9,464.57
2022	163	7,317.71
2023	197	13,599.00
2024	210	10,546.35

Cross channel netting captures a large amount of debris in comparison to storm drain inlet filters. However, netting structures restrict channel flow, often fail or create a hazard for upstream assets. Storm Water Quality Management has increased the number of site visitations to reduce the risk of flooding. In 2024, 1,310 site visits were conducted for the floatable debris program. To reduce the potential flooding hazard and reduce the risk to personnel, OKC will continue to focus efforts on storm drain inserts, hydrodynamic separators, volunteer programs and new technologies versus cross channel and outfall netting structures.

B. Oklahoma River Corridor Floatable Debris Management

The Oklahoma River Corridor floatable debris management is implemented through the Public Works Oklahoma River Maintenance Section and the Storm Water Quality Division. The Oklahoma River Maintenance Section has acquired a fleet of six vessels tailored to maintain the impounded river corridor. These assets include 27 river debris barriers, maintained by four full-time personnel. Storm Water Quality conducts regular inspections on the barriers to determine if repair or replacement is needed. Additionally, during high flow events, some barriers may fail and release from the anchor points. SWQ personnel are charged with reconnecting the barriers to the tributary banks.

Milestone	**2020**	**2021**	**2022**	**2023**	**2024**
Debris removed by the Oklahoma River Maintenance Crew	218,760 lbs.	504,860 lbs.	509,500 lbs.	588,500 lbs.	920.05 Cubic Yards

Improving the floatable debris program in the Oklahoma River corridor may include the deployment of additional trash receptacles in high use areas, anti-litter signage, deployment of additional barriers, improved barrier design, and targeted cleanup efforts (City personnel and volunteers) of areas where long-term debris accumulations have occurred.

C. Street Sweeping

Implemented by the Utilities Department through private contracts, street sweeping activities at arterial roadways are responsible for the largest proportion of debris removal (by weight). SWQ reviewed five recent years (2020-2024) of reported lane miles swept and debris removed. Lane miles swept have fluctuated from year-to-year; however, an overall ~18.7% increase in lane miles swept was observed. Tons removed per lane mile decreased by ~71%. OKC's contractors currently use regenerative air street sweepers. Future contracts should specify vacuum assisted street sweeping to maximize street roadway generated pollution removal. The range of debris tons removed/lane mile swept ranged from 0.04 – 0.14 with an average of 0.12 tons/lane mile.

Milestone	2020	2021	2022	2023	2024
Number of Street Lane Miles Swept.	21,348	21,827.20	24,486	24,914	25,332
Tons of Debris Removed through Street Sweeping Activities	2,856	3,079.23	3,490.34	3589.70	1,042.71

Using an average tons of debris removed for each lane mile (average over the 5-year review period) SWQ estimated future removals resulting from increased sweeping activities. Coupled with pollutant concentrations from the debris collected, a locally specific estimation of pollutant removal may be calculated. Average costs per lane mile was researched and SWQ has determined that each lane mile swept produces roughly 0.12 ton. The following table provides the estimated tons removed and associated costs of increased street sweeping activities.

Street Sweeping Lane Miles	1	5	10	20	30	40	50	100
Average Street Sweeping Cost	$70	$352	$704	$1,408	$2,111	$2,815	$3,519	$7,037
Estimated Debris Removal (Tons)	0.12	0.6	1.2	2.4	3.6	4.8	6	12

D. Storm Inlet Cleaning, Culvert and Roadway Maintenance

Implemented through the Public Works Department, storm drain inlet and roadway debris removal accounts for a significant portion of floatable debris removal in OKC. These figures include roadway debris removal, storm drain inlet cleaning, channel cleaning, and culvert cleaning. Improvement could be made with regard to reporting debris accumulations at bridges and culverts from field observations recorded by SWQ personnel.

Milestone	2020	2021	2022	2023	2024
Tons of Debris Removed from Storm Drain Inlets through Roadway Maintenance	25	10	116	289	233

E. Volunteer/Public Participation

Volunteer floatable control efforts offered in OKC include the Lake Overholser Lake Sweep hosted by Oklahoma Department of Environmental Quality, neighborhood cleanups, the OKC Adopt-A-City Street Program, OKC Waterway Clean Sweep Program, and community cleanups through OKC Beautiful.

Milestone	2019	2020	2021	2022	2023	2024
Adopt-A-Street Program Bags of Litter Collected	378	303	641	776	644	775
**Adopt-A-Street Program Estimated Pounds of Debris Removed	11,087	8,888	17,948	11,123	8,428	11,611
*Waterway Cleanup Program Number of Bags Collected	164	***0	687	340	623	421
**Waterway Cleanup Program Estimated Pounds of Debris Removed	5,210	***0	14,734	6,167	10,655	11,626

*Waterway Clean Sweep Program was initiated in 2015.

**Pounds/bag was estimated by randomly weighing bags during several cleanup events. The average weights of these bags were used to calculate the total weight from all bags collected during an event.

***Waterway cleanup events cancelled in 2020 due to COVID.

On average (2012-2024), AACS program volunteers removed approximately 10,000 pounds annually and the Waterway Clean Sweep program removed over 7,500 pounds annually. The AACS program has exhibited growth as indicated by the 3-year average (2012-2014) increase from 7,797 to 10,387 pounds (2022-2024). The Waterway Clean Sweep program has also exhibited growth as indicated by the 3-year average increase (2016-2018) from 3,995 to 9,483 pounds (2022-2024). An important community partner, OKC Beautiful, has provided information regarding the number of events and volunteers. However, the number of bags collected and/or associated weights were not available for this analysis. Improved community partner communications will certainly improve the collective totals for floatable control programs in OKC.

These integrated programs make up the comprehensive floatable debris controls in OKC. Certain programs, such as street sweeping, roadway/inlet maintenance, and the Oklahoma River maintenance operations, provide higher collection results. However, the volunteer programs are both educational and provide an opportunity for community engagement.

SWMP Component 13: Wet Weather Analytical

1. Program Components:

Note: The Wet Weather Analytical Program was removed from OKC's 2023 MS4 Permit authorization. However, wet weather field investigation is mentioned in Part II.8.b.ii as an investigative tool alongside other water sampling and biological monitoring efforts. As such, OKC will use the program, when needed, to assist in determining the extent of impacts which are contributed by storm water discharges.

2. Definitions

Aliquot – is an individual sample that is part of a composite sample.

Automatic Sampler- is a device used to sample surface waters using pre-programmed criteria. Sampling may be initiated by pre-determined set point conditions, such as water level, or set to sample source water after a certain time interval or certain volume of water has passed a flow sensor. Multiple aliquots are usually composited but can be taken as discrete samples. A major limitation of automatic samplers is their impracticality for the collection of certain parameters, e.g.: those with short hold times or those normally taken as a grab sample.

Event Mean Concentration (EMC) – a key analytical parameter, which refers to a flow-weighted average concentration over the whole duration of a rainfall event (defined as the total pollutant load mass divided by the total runoff volume) and which can be used to evaluate the effects of rainfall runoff on the water quality of the receiving waters.

Qualifying Storm Event or representative storm events - are those rainfall events which generate discharge resulting from a storm event of 0.1 inch or larger and that occurs at least 72 hours after a measurable (>0.1 inch) storm event. If the previous rainfall event was ≥0.1 inch but did not result in measurable storm water discharge, the interval may be waived provided the permittee documents less than 72 hours.

Composite Sample – shall mean the sample of stormwater run-off resulting from the combination of individual samples taken at selected intervals based on an increment of either flow or time. Although the intervals can be time weighted, storm water regulations require the collection of flow weighted composite samples for the purpose of MS4 regulatory monitoring.

Flow rate – is the volume of storm water discharged at a point per unit of time. For example: cubic feet per second or gallons per minute.

Flow-weighted Composite Sample – A composite sample consisting of a mixture of aliquots collected at a constant time or volume interval, where the volume of each aliquot is proportional to the flow rate of the discharge, or a constant volume is used and collected after a pre-determined discharge rate has been measured.

Grab Sample - a water sample that is collected at once, in a clean and clear glass or plastic container, from a specific water/stormwater source.

Monitoring – is the performance of stormwater flow measurement, stormwater sampling, sample analysis, and

like procedures necessary to determine compliance with stormwater discharge activity.

3. Ordinances:

Ordinance	Title	Language / Description
§57-141(d)	Scope	to carry out all inspection, surveillance and monitoring procedures necessary to determine compliance and noncompliance with this ordinance;
§57-142	Definitions	Describes the terminology such as composite sample, grab sample, and monitoring.
§57-167	Authority of Storm Water Quality Management	(a) with respect to the City's compliance with environmental laws, the Manager and the Manager's authorized representatives may do the following: (1) carry out all inspections, surveillance, enforcement, and monitoring procedures necessary to determine compliance; administer the City's compliance with its NPDES MS4 permit to discharge from the municipal separate storm sewer system;…
§57-171	Monitoring	The Manager shall monitor the quantity of, and the concentration of pollutants in stormwater discharges from the areas and locations as designated in the Oklahoma City Storm Water Management Plan.
§57-172(a-b)	Illicit Connections and Improper Disposal	(a) The Manager shall take appropriate steps to detect and eliminate illicit connections to the City Stormwater System, including the adoption of a program to screen illicit discharges and identify their sources. (b) The Manager shall take appropriate steps to detect and eliminate improper discharges, including programs to screen for improper disposal and programs to provide for public education, public information and other appropriate activities to facilitate the proper management and disposal of used oil, toxic materials, and hazardous household waste.

3. Standard Operating Procedures:

SOP	Name	Revision
SOP #2	Alkalinity Measurement	5/18/2022
SOP #3	Specific Conductance Measurement	5/9/2022
SOP #4a	DO Measurement, ProODO	8/31/2022
SOP #5	pH Measurement	8/31/2022
SOP #6	Turbidity Measurement	8/31/2022
SOP #7	Water Temperature Measurement	1/5/2024
SOP #8	Flow Measurement (SSOM)	9/27/2022
SOP #9	Flow Measurement (Meter Method)	10/28/2022
SOP #11	Inorganic and Bacteria Sample Collection	10/31/2023
SOP #14	Reagent & Standards Shelf Life	10/28/2022
SOP #17	Wet Weather (Storm Event Monitoring)	7/11/2022
SOP #19	Chain of Custody and Sample Labeling	10/4/2022
SOP #24	Automatic Sampler Use & Operation	10/31/2023
SOP #25	Flow Measurement (Timed Volume Method)	3/7/2022
SOP #26	Decontamination Procedures	10/6/2022
SOP #34	Data Quality	9/15/2023

5. Resources:

The Storm Water Quality component of Wet Weather Analytical is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Environmental Water Quality Program budget provides the funding for the Wet Weather Analytical Program. The FY24/25 budget for this account is $963,066. Laboratory services are provided by the Utilities Laboratory (fecal indicator bacteria only) and by contracted laboratory services.

The current laboratory contract is a unit-priced service contract not to exceed $182,735. This service contract was approved by OKC City Council on July 20, 2021 and is authorized for one year with the option for the City

to renew for up to four additional years.

6. General Program Description:

Storm Water Quality Division has monitored wet weather conditions since 2001 and continued monitoring certain water quality stations over several 5-year permit terms. The goal was to comprehensively identify pollutant concentrations and load changes on a storm event basis over time. The data acquired through this program was not sufficiently detailed to provide reasonable estimation of loading and cannot provide information regarding long-term water quality change. The OKS000101 MS4 Permit application submitted to the DEQ on September 15, 2017 proposed the replacement of the Wet Weather Analytical program with an alternative, the Trend and Load Based Monitoring (TLBM) Program. This method shall provide reasonable long-term pollutant load estimations and enhances the data used to assess loading in wet and dry conditions. However, wet weather field investigation is mentioned in Part II.8.b.ii. As such, OKC will continue to use elements of the program, when needed to assist in determining the extent of impacts which are contributed by storm water discharges.

Only qualifying rainfall events may be sampled. Criteria for these events include a period of at least 72 hours of dry weather and a rainfall of 0.10 inch or greater. The sampling process includes collecting a discrete grab sample at or near the initial rainfall runoff stage which accounts for the "first flush sample". Nine individual sample collections are conducted at 20-minute intervals. These individual samples are termed aliquots. These aliquots are composited in the field or laboratory and analyzed as a composite result representing a certain portion of the rainfall runoff event. The following calculation is used by laboratory personnel to composite the field collected grab samples.

Quantity of Each Aliquot = c*(b/a)

Where:
a = Initial aliquot flow volume (liters)
b = Aliquot discharge volume (liters)
c = Minimum Aliquot Volume (mL)

Example:

Aliquot	Discharge (CFS)	Amount / Bottle(mLs.)
A1	0.21	1,000
A2	0.99	4,712
A3	0.55	2,618
A4	0.79	3,759

Where: Minimum Aliquot Volume = 1,000 (mls.)

Multiple methods may be used to obtain the runoff sample volumes necessary to create a composite sample. Each method has certain deficiencies which must be understood when selecting the collection methodology

for a monitoring station. Automated sampling devices can be used to collect flow proportioned aliquots which do not require further laboratory compositing. However, this can require the user to provide information to the automatic sampler to determine the correct volume of each proportioned aliquot. Automatic samplers may also be used to collect equal volume aliquots. As with a manual grab sample, laboratory compositing is necessary. Note: volatile organic compounds (VOCs), oil & grease and fecal bacteria indicators must be collected using grab sample methodology.

The Wet Weather Analytical program, as an investigative tool, will not be limited to specific parameters. Parameters will be selected as necessary to determine the contributions of storm water runoff sources. This program may also vary in sampling methodology, such as grab samples and/or composite based sampling strategies.

Analysis/Reporting Methods:

Sampling protocol will follow Storm Water Quality Standard Operating Procedures. Analysis methods will adhere to OAC 252.606-1-3(b)(7) adopted and incorporated by reference 40 CFR Part 136. Laboratory services conducted for the support of storm water regulatory purposes will be provided by an accredited laboratory in Oklahoma. Other supporting accreditation, such as National Environmental Laboratory Accreditation Program (NELAP) and other State accreditation programs will be considered during the service provider selection.

Reporting will consist of summary data reports displaying the composite and grab sample results. Additionally, field collected information such as turbidity, specific conductance, water temperature, total alkalinity and pH will be summarized and reported for each station.

MONITORING PARAMETERS	***REPORT FOR EACH MONITORING PERIOD (each sample type)***			***SAMPLE TYPE(S)***	
	Min.	*Ave.*	*Max*	*Grab*	*Composite*
Biochemical Oxygen Demand (BOD5) (mg/L)		Yes	Yes		Yes
Chemical Oxygen Demand (COD) (mg/L)		Yes	Yes		Yes
*Oil and Grease (mg/L)		Yes	Yes	Yes	
Total Suspended Solids (TSS) (mg/L)		Yes	Yes		Yes
Total Dissolved Solids (TDS) (mg/L)		Yes	Yes		Yes
Total Nitrogen (mg/L)		Yes	Yes		Yes
Total Kjeldahl Nitrogen (TKN) (mg/L)		Yes	Yes		Yes
Total Phosphorus (mg/L)		Yes	Yes		Yes
Dissolved Phosphorus (mg/L)		Yes	Yes		Yes
Total Cadmium (µg/L) (MQL 1 µg/L)		Yes	Yes		Yes
Total Copper (µg/L) (MQL 10 µg/L)		Yes	Yes		Yes
Total Lead (µg/L) (MQL 5 µg/L)		Yes	Yes		Yes
Total Zinc (µg/L) (MQL 20 µg/L)		Yes	Yes		Yes
*E. coli (colonies/100 ml)		Yes	Yes	Yes	

MONITORING PARAMETERS	*REPORT FOR EACH MONITORING PERIOD (each sample type)*			*SAMPLE TYPE(S)*	
*pH (S.U.)	Yes		Yes	Yes	
**Hardness (as CaCO3) (mg/L)	Yes	Yes	Yes	Yes	Yes
*Water Temperature (˚C)	Yes	Yes	Yes	Yes	
Total Mercury (µg/L) (MQL 0.2 µg/L)		Yes	Yes		Yes
Total Thallium (µg/L) (MQL 10 µg/L)		Yes	Yes		Yes

*Parameters are acquired as a grab sample result.
**Parameters are acquired as a grab sample result and as a composite sample result.
General note: Additional parameters may be selected, as needed, which may require variable collection methodologies not described in this table. Although the descriptive statistic referenced table requires multiple samples for analysis, this does not indicate OKC will collect more than one sample at a station.

Each monitored rain event will be tabulated using the following calculations to determine the event loading.

Parameter Event Loading = A*B (1/1,000,000)*2.2

Total Liters per event = Aliquot 1 + Aliquot 2 + Aliquot 3 + …. Aliquot 9 Conversions:
Discharge is reported as cubic feet per second (CFS).

Conversion from CFS to liters/20 minutes is as follows.

Total liters/20 minutes = C*60*20*28.32

Where:
A = Reported Parameter Concentration as mg/L
B = Total Calculated Discharge during Monitored Event as Liters
C = Instantaneous Discharge Reading as CFS

For Example:

Nine discharge measurements where acquired at Station 1114. Each discharge represents a 20-minute interval. The instantaneous discharge reading is converted to a volume per 20-minute time interval. Each of the calculated 20-minute intervals are added for a total (estimated) volume during the monitored timeframe. The total volume calculated during this event was 396,593.3 liters.

Aliquot Number (20-minute intervals)	Discharge per Aliquot (CFS)	Volume per Aliquot (ft^3)	Volume per Aliquot (L)
1	3.90	4,680	132,537.60
2	2.89	3,468	98,213.76

3	1.00	1,200	33,984.00
4	1.21	1,452	41,120.64
5	1.14	1,368	38,741.76
6	0.94	1,128	31,944.96
7	0.33	396	11,214.72
8	0.18	216	6,117.12
9	0.08	96	2,718.72
Total Volume (ft^3) =		**14,004**	
Total Volume (L) =			**396,593**

Biochemical oxygen demand (BOD) is analyzed as a flow weighted composite sample. In the same example, the composite result was 8.03 mg/L. Using the equation above, the event loading for BOD can be calculated.

Parameter Event Loading = A*B*0.000002204 lb./mg
BOD Event Loading = 8.03 mg/L*396,593.3 L*0.000002204 lb./mg

The calculated event loading for BOD is 7.01 lbs.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Monitoring	Number of Wet Weather stations sampled.	Number of Wet Weather stations sampled / year	Demand based; Reported annually
Monitoring	Number of Wet Weather stations attempted.	Number of Wet Weather stations attempted / year	No goal is applicable for this metric. All attempted events must be documented. All conducted and attempted sampling events are reported annually.
Monitoring	Event Pollutant Loading	Monitored pollutant load	Demand based; Report annually, when applicable.

Task	Metric	Reported Figure	Goal / Reporting
Monitoring	Other monitoring strategies	Monitoring Type	Provide description of monitoring strategy and data, as necessary to determine extent of storm water sources; Report annually, when applicable

8. Narrative Goals:

To generate storm specific event mean concentrations using a standardized and EPA approved methodology to collect, composite, and analyze storm water runoff samples from specific MS4 monitoring stations in OKC. To use standard or alternative monitoring protocols to determine contributing pollutant sources as an investigative tool. Annually provide the DEQ monitoring reports and results.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC, Public Works Administration	Administration of all Public Works programs, projects, personnel, funding sources, and operations.
OKC, Public Works Dept. Storm Water Quality Division	Primary permitting, inspection, monitoring, enforcement, household hazardous waste disposal services, spill and HAZMAT response and reporting agency for OKC MS4 NPDES compliance.
Oklahoma Turnpike Authority	Co-Permittee
Oklahoma Department of Transportation	Co-Permittee
Oklahoma Department of Environmental Quality	Primary MS4 permit oversight Agency. OKC submits all relevant data to this Agency. Review of data may provide

Agency	Roles / Responsibility
	updates to the Integrated Report including impaired listings or removal based on qualified data collected by OKC.

10. Area Specific Requirements

No area-specific requirements are currently in place for this SWMP Component.

11. Analysis

No analysis is required for this SWMP Component.

SWMP Component 14: Impaired Waters Monitoring

1. Program Components:

Note: The impaired waters monitoring project is not a permit-required element and program components were internally developed.
A. Review the most recent approved State list of impaired waters every two years.
B. Develop an impaired waters monitoring program which collects tailored information at impaired stream segments to determine beneficial use impairment status. Program must include a Quality Assurance Project Plan. All data quality objectives must meet minimum data needs for beneficial use assessment purposes.
C. Review data annually and prepare information for State submittal regarding impairment status.
D. Develop an internal list of priority basins and stream segments.

2. Definitions:

Composite Sample – A composite sample consisting of a mixture of aliquots collected at a constant time or volume interval, where the volume of each aliquot is proportional to the flow rate of the discharge, or a constant volume is used and collected after a pre-determined discharge rate has been measured.

Flow rate – is the quantity of storm water discharged at a set point per unit of time. For example: cubic feet per second or cubic feet per hour.

Grab Sample - a water sample that is collected at once, in a clean and clear glass or plastic container, from a specific water/stormwater source.

Impaired Water – a water that does not meet one or more of its beneficial uses due to not attaining applicable narrative or numeric WQS. Impaired waters are identified in the CWA section 303(d) listing from Appendix X of the most recent Integrated Report. Impaired water include both waters with approved or established TMDLs, and those from which a TMDL has not yet been approved or established.

Monitoring – shall mean the performance of stormwater flow measurement, stormwater sampling, sample analysis, and like procedures necessary to determine compliance with stormwater discharge activity.

3. Ordinances:

Ordinance	Title	Language / Description
§57-141(d)	Scope	…to carry out all inspection, surveillance and monitoring procedures necessary to determine compliance and noncompliance with this ordinance;
§57-142	Definitions	Describes the terminology such as composite sample, grab sample, and monitoring.

Ordinance	Title	Language / Description
§57-167	Authority of Storm Water Quality Management	(a) with respect to the City's compliance with environmental laws, the Manager and the Manager's authorized representatives may do the following: (1) carry out all inspections, surveillance, enforcement, and monitoring procedures necessary to determine compliance; administer the City's compliance with its NPDES MS4 permit to discharge from the municipal separate storm sewer system; (2) inspect City and commercial (see SIC Codes, 57-146) properties for the presence of hazardous substances, and develop and administer whatever remediation programs are required; (3) audit City departments to determine whether the City is in compliance with Federal and State Clean Water Act laws; whether the City has obtained all permits required by Federal and State environmental laws; and whether the City is in compliance with the permits it has; (4) audit use of herbicides, fertilizers, and pesticides to determine compliance with Clean Water Act laws and to recommend alternative solutions where practicable for the reduction of their use through education and outreach programs; (5) control the discharge of spills and the dumping or disposal of materials other than stormwater (e.g., industrial and commercial waste, trash, motor vehicle fluids, leaf litter, grass clippings, animal waste, etc.) into the MS4; provide technical support for HAZMAT response; (6) administer programs to identify and control pollutants from the transportation, storage, treatment, and disposal of hazardous wastes; and monitor hazardous waste facilities which receive the City's RCRA hazardous waste for treatment or disposal for compliance with NPDES MS4 permit requirements; (7) provide assistance to the Utilities Department regarding the protection of drinking water and surface water bodies, which are a source of the City's drinking water; (8) provide assistance to the Solid Waste Management Division regarding the collection, transportation, and disposal of solid waste, compliance with NPDES MS4 requirements; (9) monitor the City's compliance with all Federal, State, and local laws; except that: (a) administering the City's compliance with State and Federal laws relating to discharge from the POTW is the responsibility of the Utilities Department; (b)

Ordinance	Title	Language / Description
		administering the City's compliance with State and Federal laws relating to the production and distribution of drinking water is the responsibility of the Utilities Department; (c) administering the City's compliance with State and Federal laws relating to the operation of the City's landfill programs are the responsibility of the Division of Solid Waste Management; and (d) administering the City's compliance with State and Federal laws relating to risk management and safety operations training; programs are the responsibility of the Department of Finance. (10) Perform such other administrative duties as may be assigned by the Director. (b) with respect to enforcement, the Manager and his authorized representatives may do the following: (1) investigate violations of and enforce those aspects of the Clean Water Act which are within the authority of local governments; (2) investigate violations of and enforce this chapter; (3) investigate violations of and enforce those provisions that relate to hazardous substances and spills although primary enforcement will remain with the Fire Chief; (4) investigate all other violations of and enforce environmental laws within the City and within the City's extended jurisdiction; (5) perform other environmental activities as may be required to ensure compliance of environmental regulations by City departments and others within The City of Oklahoma City and its extended jurisdiction. (c) with respect to other programs, the Manager and his authorized representatives may do the following: (1) monitor and coordinate with other City departments on the City's response to releases of hazardous substances; (2) review and assess the environmental hazards of real property involved in City land transactions; (3) monitor the use of City rights-of-way, property, and easements by persons with use agreements for environmental monitoring; (4) establish and supervise a program for the collection of household hazardous waste; (5) create, promote, and publicize educational programs for environmental awareness; and (6) provide quantitative data through field screening programs.

Ordinance	Title	Language / Description
§57-171	Monitoring	The Manager shall monitor the quantity of, and the concentration of pollutants in stormwater discharges from the areas and locations as designated in the Oklahoma City Storm Water Management Plan.

2. Standard Operating Procedures:

SOP	Name	Revision
SOP #1	Preparing Spiked, Duplicate and Blank Samples for Routine Quality Assurance	5/18/2022
SOP #2	Alkalinity Measurement	5/18/2022
SOP #3	Specific Conductance Measurement	5/9/2022
SOP #4a	DO Measurement, ProODO	8/31/2022
SOP #5	pH Measurement (YSI Pro 10)	9/7/2023
SOP #6	Turbidity Measurement	8/31/2022
SOP #7	Water Temperature Measurement	1/5/2024
SOP #8	Flow Measurement (SSOM)	10/28/2022
SOP #9	Flow Measurement (Meter Method)	9/27/2022
SOP #10	Fish Collection	10/31/2023
SOP #11	Inorganic and Bacteria Sample Collection	10/31/2023
SOP #14	Reagent & Standards Shelf Life	10/28/2022
SOP #17	Wet Weather (Storm Event Monitoring)	7/11/2022
SOP #15	Macroinvertebrate Collection, Subsampling, and Picking	1/4/2024
SOP #19	Chain of Custody and Sample Labeling	10/4/2022
SOP #21	Habitat Assessment	10/31/2023
SOP #22	Optical Brightener Monitoring	10/28/2022
SOP #24	Automatic Sampler Use & Operation	10/31/2023
SOP #25	Flow Measurement (Timed Volume Method)	3/7/2022
SOP #26	Decontamination Procedures	10/6/2022
SOP #34	Data Quality	9/15/2023
SOP #100	Procedures for Writing a Technical Standard Operating Procedure	11/5/2021
SOP #101	Procedure for Writing a Non-Technical Standard Operating Procedure	11/4/2021

Resources:

The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Environmental Water Quality Program Account provides funding for the Priority Based Monitoring Program. The FY24/25 budget for this account is $963,066. Laboratory services are provided by the Utilities Laboratory (fecal indicator bacteria only) and by contracted private laboratories.

The laboratory contract is a unit priced service not to exceed $182,735 which was approved by OKC City Council on July 20, 2021. The contract was authorized for one year with the option of the City to renew for up to four additional years.

Contracted professional laboratory services for stormwater analysis, consultation services, and data report generation must meet applicable NELAC, international, Federal, state, and local accreditation. Sample analysis shall be in accordance with the methods specified at OAC 252.606-1-3(b)(7) adopting and incorporating by reference 40 CFR Part 136. OKC and the contracted laboratory must participate, at least annually, in proficiency studies for those parameters listed in the applicable OKS00101 MS4 Permit. The laboratory must receive passing results for each parameter requested. On failure of one or more parameters, the contracted laboratory must provide immediate corrective actions to the City and State regulatory agencies.

6. General Program Description:

The Watershed Characterization Monitoring Project was completed in April 2011. This project identified several stream segments which were not meeting one or more beneficial uses as defined in Oklahoma Administrative Code. In addition, the program identified stream segments which require data clarifications, additional parameter monitoring (due to use support assessment protocol changes) or needed additional information for a current assessment of the stream segment due to the age of the existing available information (such as pesticide 303(d) listings).

OKC's March 15, 2013 MS4 Permit detailed a new monitoring component: the Priority Based Monitoring Program. Sites selected for monitoring were based on information acquired and assessed during Watershed Characterization Program. This analysis was used to direct monitoring efforts for priority monitoring. The 303(d) list was also consulted in the site selection process. The intent of the program was to collect information based on the identified beneficial use failures. Each basin identified as not supporting or as an undetermined status were revisited. For many stations, two types of support failures were noted and categorized as Level I or Level II segments. Based on standards violation rates, Level I stream segments consist of those applicable segments which exhibited a water quality standards violation rate of ≥10% but <15%. Segments which exhibited a violation rate of ≥15% were considered Level II.

Oklahoma City has reviewed the 2022 303(d) list.

<u>Monitoring Station Selection:</u>

The most recent 303(d) list will be reviewed and considered for monitoring stations. Selected stations will be scheduled on a rotational basis during the permit term. Stations will be monitored at least monthly for a duration as determined by the data quality objectives. Parameters and will be based on impairment and data needed for assessment purposes. Those waters which are currently included in a TMDL will not be assessed through the Impaired Waters Monitoring Program. However, additional listings which are not considered or related to the TMDL will be considered for monitoring under this program.

Monitoring Program:

Grab samples, in-situ measurements, and/or on sight observations will be conducted at a frequency necessary to accumulate sufficient data for assessment purposes. Schedules may be adjusted for seasonality but will not exceed a 15-month duration at each station. Sampling regions and a rotating schedule shall be developed to ensure a complete assessment of all impaired streams during a permit term. Each station will be visited at least 15 times to acquire the relevant samples and/or in-situ data which may include, but not be limited by aquatic biological collections, dissolved oxygen, pH, specific conductance, discharge, and/or site observations. Bacteria will be assessed through grab sample analysis of *E. coli*. A minimum of 10 samples will be required for bacterial assessment purposes. The program will have a Quality Assurance Project Plan (QAPP) and will meet the minimum sample requirements described in OAC 252:740-15-3(d) Other specialized monitoring may be implemented.

Sample acquisition will typically consist of grab samples, however composite based samples or other methods may be used according to any relevant goals established for the stream segment.

Field sampling personnel will meet all quality assurance/quality control targets and adhere to standardized procedures. For the Impaired Waters Monitoring Program, a 10% quality assurance goal has been designated. The following equation will be used to determine the quality assurance requirements for each station.

Amount of Required QC Samples = S*P*M

Where:
S= Total number of required samples / parameter
P= Percentage of QC samples required
M=Number of monitoring locations within the basin

In Example:
Station 616 requires 30 BOD samples over a fifteen-month period. The quality assurance requirements of 10% must be achieved. There are three monitoring stations within the Station 616 watershed.

S*P*M
30*0.10*3 = 9 QC BOD samples required

A QC event shall consist of one split sample and one blank sample. To describe potential stream segment variability, a replicate (temporal or spatial) may be collected.

Documentation

Field visits shall be documented and meet the criteria established within the established QAPP. The QAPP will describe the project organization, station history, quality objectives/criteria, training/certification, documentation/records, measurements/data acquisition, assessment/oversight and data validation, and usability.

Analysis/Reporting

Sampling protocol will follow Storm Water Quality Standard Operating Procedures. Analysis methods will adhere to OAC 252.606-1-3(b)(7) adopted and incorporated by reference 40 CFR Part 136. Laboratory services conducted for the support of storm water regulatory purposes will be provided by an accredited laboratory in Oklahoma. Other supporting accreditation, such as National Environmental Laboratory Accreditation Program (NELAP) and other State accreditation programs will be considered during the service provider selection.

Descriptive statistics such as minimum, maximum, mean and median values will be calculated. Final analysis will consist of both independent station or pooled basin analysis, when applicable. As indicated in OAC 252:740-15-3(b)(3), a single station may be considered representative of no more than ten stream miles for wadable streams. In many cases, several stations may be monitored within a ten-mile stream segment. The Water Body Identification Number for each stream reach will be researched and all data aggregated for assessment purposes, when applicable. If multiple stream segments exist, those stations will be analyzed independently and pooled for additional analysis.

Annually, the information collected for the Impaired Waters Monitoring Program will be tabulated and reported in the OKC Storm Water Quality Annual Report. Narratives and tables will summarize the key benchmarks achieved during that permit term. An electronic data file will be included with the tabulated monitoring values. Data will also be used to inform the Integrated Report. All data shall be assessed according to the beneficial use support assessment protocol and reported to the DEQ.

The following key timelines will be observed:

Program Area	Scheduled Program Completion Date	Status	Report Date
Part 1	December 2026	25% Completion	2026 Annual Report
Part 2	December 2027	50% Completion	2027 Annual Report
Part 3	December 2028	75% Completion	2028 Annual Report
Part 4	December 2029	100% Completion	2029 Annual Report

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Monitoring	Part 1 Completion	% Completion; Collected data	Complete Part 1 monitoring in December 2026; Report annually.
Monitoring	Part 2 Completion	% Completion; Collected data	Complete Part 2 monitoring in December 2027; Report annually.
Monitoring	Part 3 Completion	% Completion; Collected data	Complete Part 3 monitoring December 2028; Report annually.
Monitoring	Part 4 Completion	% Completion; Collected data	Complete Part 4 monitoring December 2029; Report annually.
Reporting	Provide a compilation of relevant biological collections and water quality information collected for each permit year.	All data and narrative summary of milestones	Annually / SWQ MS4 Permit Annual Report
Reporting	Participate in the Integrated Reporting Process	All data, lists, narrative summaries, and assessments	Every two years and aligned with the Integrated Report timelines as established by DEQ.

8. Narrative Goals

To provide water quality assessments at impaired stream segments within OKC to update and inform the State's Integrated Report. Use assessments to develop an internal and priority-based water body list to propose to develop mitigation strategies and seek funding opportunities.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC, Public Works Administration	Administration of all Public Works programs, projects, personnel, funding sources, and operations.

Agency	Roles / Responsibility
OKC, Public Works Dept. Storm Water Quality Management Division	The Environmental Water Quality Section has primary responsibility for conducting monitoring, site assessments, water quality, and biological assessments.
Oklahoma Department of Environmental Quality	Primary oversight Agency. OKC submits all relevant data to this Agency. Review of data may provide updates to the Integrated Report including impaired listings or removal based on qualified data collected by OKC.
Oklahoma Water Resources Board	Technical support and provides relevant additions or changes to applicable Water Quality Standards and Use Support Assessment Protocol.

10. Area-Specific Requirements

This program is designed to assess specific stream reaches which are identified as impaired in the latest State Integrated Report.

11. Analysis

All stream monitoring activities will be supported by a QAPP. Monitoring activities shall meet or exceed the data requirements provided in OAC 252:740-15-3 to include spatial, temporal, analytical, and sample quantities. Beneficial use support analysis will align with OAC 252:740. Descriptive statistics may be generated for reporting purposes which may include means, medians, minimum & maximum values, and quartiles. Advanced statistics may be used to determine trends.

SWMP Component 15: Trend and Load Based Monitoring Program (New)

1. Program Components:

A. Develop a revised list of 15 selected monitoring locations with target dates for each station to be activated. Install, calibrate, and activate water quality monitoring stations.
B. After station installation and calibration, conduct continuous monitoring at in-stream monitoring locations within selected representative drainages within OKC's corporate boundaries to provide parameter and flow data necessary to calculate annual constituent loading, in accordance with an approved QAPP.
C. Year 1 – Install, calibrate and activate five water quality monitoring stations.
D. Year 2 – Install, calibrate and activate five water quality monitoring stations.
E. Year 3 - Install, calibrate and activate five water quality monitoring stations.
F. Compile analytical data collected from the watershed characterization program during the permit year and summarize results and overall condition of the targeted watersheds. This includes, but is not limited to, stream health, pollutant concentrations, loadings, and potential impacts.
G. Complete aquatic habitat surveys for at least 15 representative locations at least one (1) time during the permit term, in accordance with an approved QAPP. For each location, complete at least two (2) winter and two summer macroinvertebrate collections, and one (1) fish collection. These locations may be, but are not required to be, the same as the monitoring locations used for the trend and load-based monitoring.
H. Develop and submit a summary of relevant biological collections and water quality information, if applicable, collected during the permit term.
I. Comprehensive Program Assessment. Based on the results of the watershed characterization program, produce an assessment that includes the findings, trends, impacts identified, responses taken, and any modifications recommended to enhance the usefulness or efficiency of the program.

3. Definitions:

Aliquot – is an individual grab sample that is part of a composite sample.

Automatic Sampler- is a device used to sample surface waters using pre-programmed criteria. Sampling may be initiated by pre-determined set point conditions, such as water level, or set to sample source water after a certain time interval or volume of water has passed a flow sensor. Multiple aliquots are usually composited but can be taken as discrete samples. A major limitation of automatic samplers is their impracticality for the collection of certain parameters, e.g.: those with short hold times or those normally taken as a grab sample.

Composite Sample – A composite sample consisting of a mixture of aliquots collected at a constant time or volume interval from a water source.

Flow rate – is the volume of storm water discharged at a point per unit of time. For example: cubic feet per second or gallons per minute.

Flow-weighted Composite Sample – A composite sample consisting of a mixture of aliquots collected at a constant time or volume interval, where the volume of each aliquot is proportional to the flow rate of the discharge, or a

constant volume is used and collected after a pre-determined discharge rate has been measured.

Grab Sample - a water sample that is collected at once, in a clean and clear glass or plastic container, from a specific water/stormwater source.

Monitoring – shall mean the performance of storm water flow measurement, storm water sampling, sample analysis, and like procedures necessary to determine compliance with storm water discharge activity.

Pollutant Load – is a mass of a substance from a discharge point in a specified amount of time. Mathematically, load is the product of concentration times discharge, as measured over the duration of the flow-weighted composite sample collection.

3. Ordinances:

Ordinance	Title	Language / Description
§57-141(d)	Scope	…to carry out all inspection, surveillance and monitoring procedures necessary to determine compliance and noncompliance with this ordinance;..
§57-142	Definitions	Describes the terminology such as composite sample, grab sample, and monitoring.
§57-167	Authority of Storm Water Quality Management	**(a)** with respect to the City's compliance with environmental laws, the Manager and the Manager's authorized representatives may do the following: **(1)** carry out all inspections, surveillance, enforcement, and monitoring procedures necessary to determine compliance; administer the City's compliance with its NPDES MS4 permit to discharge from the municipal separate storm sewer system;…
§57-171	Monitoring	The Manager shall monitor the quantity of, and the concentration of pollutants in stormwater discharges from the areas and locations as designated in the Oklahoma City Storm Water Management Plan.

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #1	Preparing Spiked, Duplicate and Blank Samples for Routine Quality Assurance	5/18/2022
SOP #2	Alkalinity Measurement	5/18/2022
SOP #3	Specific Conductance Measurement	5/9/2022

SOP	Name	Revision
SOP #4a	DO Measurement, ProODO	8/31/2022
SOP #5	pH Measurement	8/31/2022
SOP #6	Turbidity Measurement	8/31/2022
SOP #7	Water Temperature Measurement	1/5/2024
SOP #8	Flow Measurement (SSOM)	10/28/2022
SOP #9	Flow Measurement (Meter Method)	9/27/2022
SOP #10	Fish Collection	10/31/2023
SOP #11	Inorganic and Bacteria Sample Collection	10/31/2023
SOP #14	Reagent & Standards Shelf Life	10/28/2022
SOP #15	Macroinvertebrate Collection, Subsampling, and Picking	1/4/2024
SOP #19	Chain of Custody and Sample Labeling	10/4/2022
SOP #21	Habitat Assessment	10/31/2023
SOP #24	Automatic Sampler Use & Operation	10/31/2023
SOP #25	Flow Measurement (Timed Volume Method)	3/7/2022
SOP #26	Decontamination Procedures	10/6/2022
SOP #34	Data Quality	9/15/2023
SOP #56	Passive Sampler (Thermo Scientific Nalgene Storm Water Sampler and Mounting Kit)	10/28/2022

5. Resources:

The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Environmental Water Quality Program account provides the funding for the Trend and Load Based Monitoring Program. The FY24/25 budget for this account is $963,066. Laboratory services are provided by the OKC Utilities Laboratory (fecal indicator bacteria only) and by contracted private laboratory services.

The current unit priced laboratory contract was authorized by OKC Council on July 20, 2021. Up to $182,735

was authorized for 1 year with OKC's option to renew the contract for an additional 4 years.

6. General Program Description:

Programs have been established throughout the nation to provide reasonable estimations of constituent loadings to bodies of water. The TMDL process provides an assessment of the maximum allowable pollutant loadings to a waterbody to still meet applicable water quality standards. The OKC Trend and Load Based Monitoring Program was established to generate watershed constituent loading and to determine potential trends related to constituent loading, biological communities, or other indicators. This program will provide practical load estimations while considering the natural flux which occurs in non-point source pollutant situations. The program provides sample collection representing all hydrologic conditions through flow-paced sampling. Surrogate parameters may be used to establish baseline conditions and identify long-term trends in a watershed. This information can be used for multiple purposes, including calculating annual loads for model calibration and verification, as well as providing long-term assessment of watershed-based storm water control structures and other best management practices.

The program specifies continuous, year-round sampling and measurement of flow. The current approach developed for OKC includes strategically located permanent monitoring stations in the urban and semi-urban environment. Quality trends, such as adoption of new structural and non-structural regulations may require several years of data to determine changes to a system because the BMPs may be installed or instituted gradually and often a lag time exists between implementation and watershed response. Although these changes may be monotypic (gradual changes), in some cases the changes may display definitive and abrupt changes (step trend). Different analysis will be needed in different cases. In most instances, OKC believes that BMPs within a watershed will provide change over a relatively long period of time thus monotypic trend analysis may be warranted.

As this program is intended to calculate annual loads, the approach will provide a much more comprehensive approach towards storm water monitoring. OKC believes that this approach will satisfy the requirements of Wet Weather Analytical Monitoring as described in Component 13.

Station selection was based on a prioritized matrix which includes historical data, regulatory aspects (TMDL watersheds), and the need for additional data for future TMDLs. The goals of the Trend and Load Based Monitoring Program include:

1. Provide relevant and continuous data at selected impaired stream segments for future TMDL development.
2. Provide annual load data at representative locations in the MS4 jurisdiction to assess long-term trends of pollutant loadings.
3. Collect long-term data which provides feedback to the current and future iterative BMPs implemented in OKC.
4. Satisfy load-based monitoring requirements for existing and future TMDLs excluding those water bodies which require more specialized monitoring protocol.
5. Provide biological and other surrogate measures which may further support BMP effectiveness and constituent loading trends.

Sampling protocol will follow Storm Water Quality Standard Operating Procedures. Analysis methods will

adhere to OAC 252.606-1-3(b)(7) adopted and incorporated by reference 40 CFR Part 136. Laboratory services conducted for the support of storm water regulatory purposes will be provided by an accredited laboratory in Oklahoma. Other supporting accreditation, such as National Environmental Laboratory Accreditation Program (NELAP) and other State accreditation programs will be considered during the service provider selection.

7. Component Metrics:

Baseline information will be established over time. Trends can be difficult to realize over short monitoring timeframes (three years). As trend analysis can be impacted by seasonal cycles, diurnal cycles, and measurement error among others, OKC realizes that a considerable amount of time may be necessary to assess long-term (ten years) impacts of changes to municipal code with regard to structural or non-structural BMPs. The following metrics will be established for reporting needs:

Initial metrics are based on program implementation and station calibration. Each station must be "calibrated" meaning the equipment must be correctly installed, rating curves developed, and telemetry established. Metrics 2-3 may be instituted as soon as the equipment is installed but much of the initial data will be quality flagged as the flow, sample pacing, and aliquot volumes are adjusted to local conditions. These metrics also establish the benchmark minimum targets for each station (when applicable). Metric 4 describes the data reporting efforts which support the data quality objectives of the program.

The initial candidate stations were selected to meet current OKC data needs. Some historical stations were adopted into the program such as the Lake Thunderbird TMDL stations (Station 24 and 570) and two historical Wet Weather Analytical stations (Station 616 and 617). Drainage Engineering Section of the Public Works Department has provided a list of storm water control structures which are considered "high hazard dams" that are also potential locations. As this network is developed, the overarching goal is to create a monitoring network which records rainfall, water level, calculated discharge and to provide selected stations with automated sampling ability.

Stations were initially selected from historical or regulated watershed stations (Lake Thunderbird TMDL). A second group of stations is currently being selected from water bodies identified on the latest 303(d) list. These are segments for which a TMDL is underway or will be scheduled in the near future. In many cases, these segments are listed for the fecal contamination indicators *Enterococcus* or *E. coli* (or both) which will require grab sample collection. These stations will be monitored for discharge to provide TMDL developers year-round discharge information for accurate modeling.

Metric 1: Install monitoring stations which represent OKC's diverse land use, storm drainage systems and open channels, geography, and pollutant loadings in order to calculate annual loading.

Stations currently selected to represent OKC number less than twenty. The list includes the following stream segments which may be expanded or reduced as necessary while the program evolves. SWQ will maintain a minimum active station count of fifteen after Year 3:

WBID	Name	*Enterococci*	*E. coli*	Nitrates	DO	Chlorides	Oil & Grease	Selenium	Sulfates	TDS	Turbidity	Category	*Status
No WBID Assigned	SW 12th and Lee (Station 616 – No WBID)												I
No WBID Assigned	Upper Deep Fork River (No WBID)												I
OK520520000150_00	Crooked Oak Creek	5a	TMDL		5a	5b	5c					5	NI
OK520520000230_00	Campbell Creek				5a				5b			5	NI
OK520520000240_00	Mustang Creek		TMDL		5a							5	NI
OK520520000350_00	Airport Heights Creek!				5a						5a	5	I
OK520610010230_00	Cow Creek				5a			5a				5	NI
OK520710020060_00	Canadian River, Deep Fork	5a	5a									5	NI
OK520810000030_00	Hog Creek	5a	5a		5a						5a	5	I
OK520810000100_00	Elm Creek		5a							5b	5a	5	I
OK620910040100_00	Chisholm Creek			5a								5	NI
OK620910040140_00	Bluff Creek	4a	5a									5	NI

*NI- Not Installed; I - Installed

Task	Metric	Reported Figure	Goal / Reporting
Installation	Year 1 (2024) Installation & Calibration	# Stations installed / year	5 stations, initial calibration not to exceed 6 months; Report annually

Installation	Year 2 (2025) Installation & Calibration	# Stations installed / year	5 stations, initial calibration not to exceed 6 months; Report annually
Installation	Year 3 (2026) Installation & Calibration	# Stations installed / year	5 stations, initial calibration not to exceed 6 months; Report annually

Metric 2: Collect stream or structural control measure information which will be used to provide annual loading to assess loading characteristics over time by specifying the sample goals and data representation goals.

Task	Metric	Reported Figure	Goal / Reporting
Trend & Load Based Monitoring	Number of composite samples used to calculate annual loading / year	# of valid samples	52 samples; Report annually
Trend & Load Based Monitoring	% of year sampled.	# of successful sampling events / total attempted sampling events	60% successful samples acquired (note: based on average data sampled from 2021-2024); Report annually

Metric 3: Provide the data necessary for long-term load character analysis and provide any other relevant data which may assess stream health such as biological and habitat assessments.

Task	Metric	Reported Figure	Goal / Reporting
Trend & Load Based Monitoring	Biological Assessments	Aquatic Macroinvertebrate (Applicable rapid biological assessment methodology)	Complete two winter and summer aquatic macroinvertebrate collections during the 5-year permit term (Note: macroinvertebrate collections must represent temporal

Task	Metric	Reported Figure	Goal / Reporting
			variability. Therefore, collections will be scheduled to ensure that each summer/winter samples will be acquired in different and consecutive years); Report progress and data annually.
Trend & Load Based Monitoring	Biological Assessments	Fish (242:740-15-5 Assessment of Fish and Wildlife Propagation)	Complete at least one fish collection and associated habitat assessment at each station (if applicable).
Trend & Load Based Monitoring	Sample Acquisition	Determine the flow sample pacing interval which to best represent and meet the collection goals identified in Metric 1.	TBD (when applicable)

Metric 4: Analyze parameter concentrations and discharge data to develop the calculated average load and to assess trends. Develop a reporting format.

Task	Metric	Reported Figure	Goal / Reporting
Trend & Load Based Monitoring	Total Load	Total QA accepted discharge measured (during sampling period) X QA accepted constituent concentration	Calculated for each sampling period and summed for each year; Report annually
Trend & Load Based Monitoring	Annual Load	Sum of total loads	No goal established;

Task	Metric	Reported Figure	Goal / Reporting
			Report annually
Trend & Load Based Monitoring	Trend Analysis	Use statistical methods to determine if hydrological, spatial and temporal loading trends can be observed.	No goal established; Reporting timeframe ≥ 5 years due to the need for a representative data set.

8. Narrative Goals:

1. Develop a long-term monitoring program which provides consistent methodology of water quality data collection representing instream water quality and the variability created by hydrological, seasonal, and temporal changes.
2. Develop a long-term database of water quality information provided by continuous sample collection and discharge recordings to calculate pollutant loadings.
3. Develop and continuously revise the parameter matrix for applicable monitoring locations which assist in the assessment of long-term trends in water quality. This may include forms of physical and biological monitoring.
4. Provide relevant feedback to the OKC Storm Water Manager regarding the quality of receiving waters to determine if long-term changes are occurring at the representative stations.
5. Provide real-time water level and flow data to Drainage Engineering staff.

9. Cooperating Departments, Agencies and Communities:

Agency	Roles / Responsibility
OKC, Public Works, Administration	Administration of all Public Works programs, projects, personnel, funding sources, and operations.
OKC, Public Works Dept. Storm Water Quality Management Division	The Environmental Water Quality Section has primary responsibility for conducting monitoring, site assessments, water quality, and biological assessments. The Section additionally provides sample station installation, calibration and maintenance.

Agency	Roles / Responsibility
Oklahoma Department of Environmental Quality	Primary oversight Agency. OKC submits all relevant data to this Agency. Review and analysis of these data may provide recommendations to add or remove stream segments from impaired streams listings. Technical support and provides relevant additions or changes to applicable Water Quality Standards.
Oklahoma Water Resources Board	Technical support and provides relevant additions or changes to applicable Water Quality Standards.

10. Area Specific Requirements:

There are no area specific requirements for this program.

11. Analysis:

Historically, the OKC SWQ monitoring programs have focused on relatively short-term monitoring efforts to provide a general assessment of stream health related to applicable State Water Quality Standards. The proposed program, Trend and Load Based Monitoring, is fundamentally different in that the collected information will provide OKC with a regional approach to determine if instituted BMPs or changes to BMPs create a response within monitored watersheds. Transitioning from a concentration-based sampling program to a calculated load effort requires stringent methodology which is consistently applied. As specified in the Component Metrics, the program's success will be measured on the amount of data needed to make defensible statements of water quality change.

The proposed Trend and Load Based Monitoring Program key components are the establishment of stations located throughout the OKC. These stations will be continuously monitored. Some stations will represent rural areas (existing Lake Thunderbird TMDL stations) while others will be located in low, medium, and high density developed areas. The information obtained at the existing stations to date has yielded useful information about the character of pollutant loading in OKC. The collection of these data will provide OKC an opportunity to determine pollutant loadings during dry, moist and, wet weather conditions. Simple calculations can provide weekly, monthly, or annual pollutant loadings. In years five and ten of the program, trend analysis may be performed. Considerable data should be acquired by year five providing sufficient data pools for trend analysis. The specific methodology to be used is currently unknown due to the lack of prior knowledge about the nature of the data sets. Seasonality, exogenous variables, and data normality are just a few factors which must be considered in the analysis.

SWMP Component 16: Illicit Discharge Detection and Elimination Program

1. Program Components:

A. Identify priority areas including, but not limited to, areas with a higher likelihood of illicit connections or discharges and areas with a history of illegal dumping or citizen complaints.
B. Continue investigating reported illicit discharges and eliminating non-authorized non-stormwater discharges.
C. Conduct investigations of illegal dump sites to reduce chronic illegal dumping.
D. Continue sanitary sewer system inspection, repair, and cleaning program to reduce the likelihood of backups and sanitary sewer overflows.
E. Continue to conduct Dry Weather Field Screening to identify non-stormwater flows.
F. Spill Prevention and Response. Continue to respond with technical support for the Oklahoma City Fire Department or other emergency responders on hazardous material spills and incidents that may cause or contribute to stormwater contamination.
G. Develop and maintain a data management system and procedures for pollution complaints and spills responses.
H. Continue to operate and maintain the permanent household hazardous waste collection center to properly dispose of used motor vehicle fluids and household hazardous waste that is readily available to the residential sector within the MS4 and to qualifying Oklahoma City residents or residents from other communities with legal inter-jurisdictional agreements.
I. Continue support of Oklahoma City's recycling efforts through curbside recycling and other multi-family recycling collections.
J. Maintain at least 25 floatable monitoring structures for capture and categorization of floatables and continue removal of floatable materials and maintenance at a frequency necessary for proper operation of the removal structures.
K. Document all floatable debris removal quantities in cubic yards and include categorization of constituents.
L. Storm Sewer Map. Continue updating a storm sewer system map that shows the location of all outfalls and the names of all waters of the state. See also Part III.A.2.b.
M. Maintain a list of dischargers with OPDES or NPDES permits/authorizations and occasional incidental non-stormwater discharges to the MS4.

2. Definitions:

IDDE – Illicit Discharge Detection and Elimination Program. MS4 permit component which includes dry weather field screening to discover sources of non-storm water discharges from illicit connections, illegal dumping or other contributing sources. This component of the IDDE program is described in 40 CFR Part 122.26.

Illicit Discharge – is defined at 40 CFR Part 122.26(b)(2) and refers to any discharge to a municipal separate storm sewer system that is not composed entirely of stormwater, except discharges authorized under an OPDES or NPDES permit (other than the OPDES permit for discharges from the MS4) and discharges resulting from firefighting activities.

Grab Sample - a water sample that is collected at once, in a clean and clear glass or plastic container, from a specific water/stormwater source.

Major Outfall - Major Municipal Separate Storm Sewer Outfalls (Major Outfalls) are defined as a municipal separate storm sewer outfall that discharges from a single pipe with an inside diameter of 36 inches or more or its equivalent (discharge from a single conveyance other than circular pipe which is associated with a drainage area of more than 50 acres); or for municipal separate storm sewers that receive storm water from lands zoned for industrial activity (based on comprehensive zoning plans or equivalent), an outfall that discharges from a single pipe with an inside diameter of 12 inches or more or from its equivalent (discharge from other than a circular pipe associated with a drainage area of 2 acres or more). (Taken in part or wholly from 40 CFR Part 122.26)

Pollutant Source – any discernable, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff.

3. Ordinances:

Ordinance	Title	Language / Description
§57-135	Inspection	The Director shall have the right to inspect any on-site detention or retention facility at any reasonable time to determine if it is in compliance with the approved design and is capable of functioning properly. The Director shall have the right to inspect any property within the City to determine the source, quantity, quality or flow rate of stormwater and to determine the source and nature of pollutants, hazards and/or activities creating or promoting same.
§57-172	Illicit Connections and Improper Disposal	**(a)** The Manager shall take appropriate steps to detect and eliminate illicit connections to the City Stormwater System, including the adoption of a program to screen illicit discharges and identify their sources. **(b)** The Manager shall take appropriate steps to detect and eliminate improper discharges, including programs to screen for improper disposal and programs to provide for public education, public information and other appropriate activities to facilitate the proper management and disposal of used oil, toxic materials, and hazardous household waste.
§57-178	Illicit Discharge and Illegal Dumping	Ordinance describes prohibited discharges to the OKC MS4.

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #1	Preparing Spiked, Duplicate and Blank Samples for Routine Quality Assurance	5/18/2022

SOP	Name	Revision
SOP #5	pH Measurement	8/31/2022
SOP #7	Water Temperature Measurement	1/5/2024
SOP #8	Flow Measurement (SSOM)	10/28/2022
SOP #9	Flow Measurement (Meter Method)	9/27/2022
SOP #11	Inorganic and Bacteria Sample Collection	10/31/2023
SOP #14	Reagent & Standards Shelf Life	10/28/2022
SOP #16	Dry Weather / Illicit Discharge Monitoring	9/30/2022
SOP #19	Chain of Custody and Sample Labeling	10/4/2022
SOP #22	Optical Brightener Monitoring	10/28/2022
SOP #23	Global Positioning System	10/28/2022
SOP #25	Flow Measurement (Timed Volume Method)	3/7/2022
SOP #26	Decontamination Procedures	10/6/2022
SOP #27	Dye Testing	10/7/2022
SOP #31	Storm Sewer Camera Unit (Cues Steerable Pipe Ranger with OZII Camera Unit)	9/20/2023
SOP #32a	Gas Alert MaxXT II 1,2,3,4 gas Detector	10/7/2022
SOP #32b	Gas Alert Mircro Clip XL1, 2, 3, and 4-Gas Detector	9/7/2023
SOP #52	Chlorine Measurement (using HACH Pocket Chlorimeter II)	10/31/2023

5. Resources:

The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

The Environmental Water Quality Program Account provides the funding for the Illicit Discharge Detection and Elimination Monitoring Program. The FY24/25 budget for this account is $963,066. Any applicable laboratory services are provided by the Utilities Laboratory (fecal indicator bacteria only) or by a contracted private laboratory service.

Laboratory services are available, if needed, for the analysis of IDDE samples. The current unit priced laboratory contract was authorized by OKC Council on July 20, 2021. Up to $182,735 was authorized for 1 year with OKC's option to renew the contract an additional 4 years.

6. General Program Description:

The Illicit Discharge Detection and Elimination Program (IDDE) functions to locate and eliminate illicit discharges and improper disposals to the MS4. This program shall include dry weather field screening activities to locate portions of the MS4 with suspected illicit discharges and improper disposal. Follow-up activities to eliminate illicit discharges and improper disposal may be prioritized on the basis of magnitude and nature of the suspected discharge; sensitivity of the receiving water; and/or other relevant factors.

This program establishes priorities and schedules for screening outfalls in high priority areas at least once each permit year. The permit also requires annual screening of at least 40% of the MS4 in other areas. OKC must screen all monitoring stations two times during the permit term. Field screening results which exceed benchmark follow-up levels must be investigated within 72 hours of confirmation. SWQ shall require the elimination of illicit discharges and improper disposal practices as expeditiously as reasonably possible. Where the elimination of an illicit discharge within thirty (30) days is not possible, SWQ shall require an expeditious schedule for removal of the discharge. In the interim, SWQ shall require the operator of the illicit discharge to take all reasonable measures to minimize the discharge of pollutants to the MS4. Reported illegal dumping activities shall be investigated within 72 hours of report receipt. Dumpsite cleanup or the implementation of best practices to reduce or eliminate the storm water impacts will be accomplished within 180 days.

Illicit Discharges and Improper Disposal: Non-storm water discharge to the MS4 shall be effectively prohibited. The OKC MS4 Permit Part I.B.1-2 provides the following Authorized Discharges. Note that these are conditionally allowed discharges provided (a) the discharges are insignificant sources of pollutants to the MS4 because of the conditions the permittee(s) has established for allowing these discharges to occur; and documentation is included in the SWMP describing any local controls or conditions placed on such discharges; and a provision is included in the SWMP prohibiting any individual non-stormwater discharge that is determined to be contributing significant amounts of pollutants to the MS4.

(1) Except for discharges prohibited under Part 1.C., this permit authorizes all existing or new stormwater point source discharges and certain non-stormwater discharges specified in paragraph 2 below to water of the state from those portions of the MS4 owned or operated by the permittee(s).

(2) Authorized non-stormwater discharges are

- *(a) Diverted stream flows;*
- *(b) Uncontaminated discharges from riparian areas and wetlands;*
- *(c) Uncontaminated ground water or spring water ;*
- *(d) Residential building wash water that does not use detergents, solvents, and/or soaps;*
- *(e) Uncontaminated pumped ground water;*
- *(f) Uncontaminated ground water infiltration;*
- *(g) Uncontaminated and dechlorinated discharges from potable water sources, including water line flushing and fire hydrant flushing;*
- *(h) Foundation drains;*
- *(i) Air conditioning condensate;*
- *(j) Water from crawl space pumps;*
- *(k) Footing drains;*
- *(l) Residential, non-commercial, and charity car washing;*
- *(m) Landscape irrigation and lawn watering, provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved manufacturers' instructions and/or labeling;*
- *(n) Uncontaminated and dechlorinated swimming pool discharge (excluding filter backwash or discharges associated with salt water pool systems);*
- *(o) Street wash water, including wash water generated from the washing of other impervious surfaces such as sidewalks and parking lots, that does not use detergents, solvents, and/or soaps, and for which the operator has obtained the applicable local stormwater permits prior to commencing the activity;*
- *(p) Discharges in compliance with separate OPDES or NPDES permits;*

(q) *Discharges of gray water from municipal splash pads (aka, spray parks or spray grounds), as defined in Oklahoma Statutes 27A O.S. §2-6-107, unless otherwise permitted or regulated by DEQ, provided the discharges comply with all applicable municipal and county ordinances enacted pursuant to law (discharges from recirculating systems shall be dechlorinated); and*

(r) *Discharges or flows from emergency firefighting activities or training activities that are not taking place at a permanent facility, that either do or do not involve per- or polyflouroakyl substances- (PFAS) - containing aqueous firefighting foams (AFFFs), and that are consistent with Part II.A.9 of this permit. Procedures shall be in place for the Incident Commander, Fire Chief, or other on-scene firefighting official in charge to make an evaluation regarding potential releases of pollutants from the scene.*

a. *Measures shall be taken to reduce any such pollutant releases to the Maximum Extent Practicable (MEP) subject to all appropriate actions necessary to avoid or minimize the impacts on water quality and to ensure public health and safety. After the emergency or training activity has ceased, non-stormwater discharges (e.g., discharges associated with clean-up) are prohibited. Determination of cessation of the emergency or training activity is at the discretion of the on-site coordinator.*

b. *These procedures shall be documented in the SWMP.*

Pre-Release Notification Form

For planned discharges to the MS4, OKC developed a Pre-Release Notification (PRN) Form. When reported, the form is provided to residents, operators or other parties which plan to release non-storm water sources to the MS4 or community waters. This includes, but is not limited to, new water line flushing (not associated with a permitted project), surface water drainage projects, underground storage tank dewatering, vault/utility manhole/basement dewatering, hydrostatic pressure testing fluids and other similar activities. The form provides the activity description, discharge site location, release volume/rates, best practices, and applicable testing requirements. This notification provides OKC an option to review the proposed release to determine if allowable and to ensure best practices are in place. SWQ provides inspection during the release to ensure the condition of the PRN are met.

Monitoring Station Selection

Stations were originally selected based on several key criteria addressed in 40 CFR Part 122.26. Sampling may occur from underground conduits including reinforced concrete boxes (RCBs), reinforced concrete pipes (RCPs), PVC or other materials used to transport storm water flows. Stations may be located at natural streams, improved channels, manholes, and storm water outfalls. 40 CFR Part 122.26 provides that *"in large municipal separate storm sewer systems, no more than 500 cells need to have identified field screening points."* OKC exceeds these requirements and continues to add additional monitoring stations when appropriate.

Sample Acquisition

Sampling will generally consist of grab samples and in situ measurements. As previously noted, monitoring stations may include underground storm sewers and surface level channels (natural or otherwise improved). In some cases, extension poles or other devices (such as pumps) may be utilized to acquire sample quantities for analysis.

Parameters include but are not limited to field measurements of total chlorine, phenols, detergents, total

copper, pH, discharge, and water temperature. Field observations include local land use, a site description, odors, water color, water clarity, floatables, deposits/stains, vegetative condition, structural condition and any observations of biological attributes.

Calibration, sampling and documentation shall follow the guidance requirements specified in the Storm Water Quality Standard Operating Procedures (listed in Section 4). Procedures for field screening can be found in OKC SOP #16. 40 CFR Part 122.26 provides *"At a minimum, a screening analysis shall include a narrative description, for either each field screening point or major outfall, of visual observations made during dry weather periods. If any flow is observed, two grab samples shall be collected with a minimum period of 4 hours between samples. For all such samples, a narrative description of the color, odor, turbidity, the presence of an oil sheen or surface scum as well as any other relevant observations regarding the potential presence of non-storm water discharges or illegal dumping shall be provided. In addition, a narrative description of the results of a field analysis using suitable methods to estimate pH, total chlorine, total copper, total phenol, and detergents (or surfactants) shall be provided along with a description of the flow rate."*

The OKC MS4 Permit Part II.A.13.a provides *"Screening methodology may be modified based on experience gained during actual field screening activities and not need conform to the protocol at OAC 252:606-1-3(b)(3)(L) adopting and incorporating by reference 40 CFR 122.26(d)(1)(iv)(d). Sample collection and analysis need not conform to the requirements of OAC 252:606-1-3(b)(7) adopting and incorporating by reference 40 CFR Part 136. However, samples taken to confirm (e.g. in support of possible legal action) a particular illicit connection or improper disposal practice should conform to the requirements of OAC 252:606-1-3(b)(7)."*

Laboratory services conducted for the support of storm water regulatory purposes will be provided by an accredited laboratory in Oklahoma. Other supporting accreditation, such as National Environmental Laboratory Accreditation Program (NELAP) and other State accreditation programs will be considered during the service provider selection process.

Documentation

Each field visit will be documented on an Illicit Discharge Field Screening Program Field Form. Follow-up investigations will be documented with a Dry Weather Follow-up Report. All field data will be entered into an Access database. Once site documentation is received and entered into the SWQ database, the documents are scanned and placed onto the OKC network. The original hard copies of all field data are maintained for a period of 3 years from the date of collection. The documents are destroyed after the record hold time is complete.

Stations which require follow-ups are documented using the same field forms, however a Dry Weather Follow-up Report will be completed. This report provides information about the original sampling results, follow-up actions, onsite measurement results, and efforts to remove, reduce or eliminate applicable sources of pollution.

Analysis and Reporting

Analysis consists of tabulating the information as it is received. Screening values for each parameter were established for follow-up purposes. If the screening values are met or exceeded, a follow-up investigation will be

initiated. The table below displays the aforementioned screening values. Annual reporting is required for the IDDE program. Field-collected information is tabulated and reported in a spreadsheet format and narrative format in OKC's Storm Water Quality Annual Report. Basic program statistics are generated which include the number of scheduled locations monitored, number of site visits, number and type of detections and number of follow-up pollution investigations. Follow-up reports are generated and submitted with the tabulated data annually.

Parameter	Screening Value
pH	≤6.50 or ≥9.00 (SU)
Copper	*Any Detection
Phenol	*Any Detection
Total Chlorine	≥0.2 mg/L
Detergents	≥0.25 mg/L
Visual / Odor Observations	Any Observed Adverse Impact

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Monitoring	Permit Year 1 ~ 25% Permit Year 2 ~ 25% Permit Year 3 ~25% Permit Year 4 ~ 25% Permit Year 5 – 100%	% of required stations completed / year	Monitor 100% of the 554 stations, two rotations per 5-year permit cycle: Report annually
Monitoring	Total number of site visits	# Site visits / year	25% years 1-4, 100% of stations year 5; Report Annually
Monitoring	Number of dry weather screening parameter detections which require follow-up.	# Detections / year (number and type of detection)	No goal established; Report annually
Monitoring	Number of stations with screening values which do not require follow-up.	# Stations screened which do not require follow-up / year	No goal established; internal reporting
CCTV	Miles of MS4 infrastructure assessed.	# feet/miles of MS4 infrastructure assessed	Report as feet/miles of CCTV MS4 infrastructure inspection by SWQ and Streets and Drainage Maintenance; Report annually
CCTV	Number of MS4 CCTV operations	# CCTV inspections	Report number of MS CCTV operations by SWQ and Streets and Drainage

Task	Metric	Reported Figure	Goal / Reporting
			Maintenance; Report annually

8. Narrative Goals:

Provide the monitoring as required in Part II.A.13 and Part III.A. Component 14 of the Storm Water Discharge Permit for OKC. Provide the screening, detection and elimination of illicit or illegal discharges to the MS4 and to seek resolution through cooperative or administrative actions to remove the discharges. Document problems identified, report any resolutions to those problems and provide annual reporting to the ODEQ.

The IDDE Program was developed for screening the MS4 to detect discharges which may be contributing to downstream water quality problems. Visual observations combined with the measured parameters total chlorine, total copper, pH, water temperature, detergents, discharge and total phenol are used to indicate issues within a drainage system. If detections or observations are made which require follow-up, technicians will begin tracking the problem to its source. Once found, voluntary or administrative actions are used to correct the situation.

9. Cooperating Departments and Agencies:

The IDDE Program, as described above, is a screening program. However, the screening program is part of the larger IDDE Program efforts which encompasses several OKC Departments. City efforts may include developing response personnel to accidental releases, employee training, proper waste disposal methods and ensuring proper housekeeping and maintenance of infrastructure. The IDDE program can be broken down into four major components: 1) Proper Waste Disposal / Education; 2) Illegal / Illicit Discharge Ordinances; 3) MS4 Field Screening; 4) Response and Reporting.

1) Proper Waste Disposal / Education

Proper waste and disposal education involves several City Departments. The Utilities Department provides waste management, potable water distribution and waste water collection. Constant operation and maintenance is required on City infrastructure. Residents may be the first to observe problems associated with this infrastructure and can report problems to the City.

OKC's Household Hazardous Waste Collection Facility provides residents the opportunity to properly dispose of unwanted or unused chemicals.

OKC has developed informational brochures and other media regarding proper disposal of chemicals, lawn management and other contibuting factors to illegal dumping and illicit discharges. Examples of programs or information related to IDDE related subjects include:

- Utilities FOGsie Program was developed to address Fats, Oils and Grease (FOGs) discharge to the sanitary sewer system. FOGs can damage receiving sewers by depositing and clogging, which can create surfacing sewage.
- OKC Storm Water Outreach Program provides multiple educational aspects to educate residents,

businesses and civic organizations about the impact of polluted storm water discharges and how each person plays a part in reducing the impact from daily activities. SWQ has developed several brochures which address grass clipping disposal, proper lawn fertilization, proper pesticide use, and floatable debris.

- OKC SWQ Spill Response personnel are on call 24 hours/day to respond to spills or other discharges which may cause or contribute to storm water pollution.
- OKC SWQ's HHWCF provides an efficient, safe and convenient opportunity for residents to dispose of unused or unwanted chemicals.
- OKC Police Department personnel and recruits are periodically trained to identify issues which may contribute to storm water contamination.
- OKC Fire Department personnel and recruits are periodically trained to identify issues which may contribute to storm water contamination.
- OKC Parks and Recreation Department provide Pet Waste Stations at City parks for the proper disposal of Pet Wastes.

2) Illegal or Illicit Discharge Ordinances

Ordinances are developed which comprehensively address the disposal of solid waste, raw products, spill and accidental release response, and dead animals. These ordinances provide the authority for the City to manage and enforce the proper dispoal of waste which may otherwise be discharged to the MS4 or surface waters.

3) MS4 Screening

OKC conducts regular screenings of the MS4 to detect, track and ultimately eliminate non-permitted sources of non-storm water in the MS4. Screening is conducted each year on a scheduled basis. The methodolgy is described within this SWMP component. Other OKC Departments, State, Federal and volunteer organizations play a significnat role in the identification of illicit discharges and the follow-up neccesary to eliminate these sources.

Agency	Roles / Responsibility
OKC, PW Administration	Administration of all Public Works programs, projects, personnel, funding sources and operations.
OKC, PW Storm Water Quality Management Division	Storm Water Quality Division is charged with monitoring the MS4, responding to spills and pollution complaints, facility and construction site inspections, and is the Division responsible for NPDES MS4 reporting.
OKC, PW Streets Traffic and Drainage Maintenance Division	Charged with the operation and maintenance of storm water infrastructure and streets. These personnel often find issues within the storm water drainage system and report those issues to SWQ.

Agency	Roles / Responsibility
OKC, Development Services Department	Development Services includes Animal Welfare (dead animal disposal) code enforcement, the Development Center (including building and plumbing inspectors) which ensure proper private construction practices are applied through inpection and authorization processes.
OKC, General Services Department	General Services Department ensures that City owned buildings and the City fleet are properly maintained and operated. This includes multiple City office buildings and Fleet Services buildings.
OKC, Parks and Recreation Department	Parks and Recreation Department maintains City property grounds including the control of floatables debris and reporting of suspected illicit discharges or illegal dumping on those properties.
OKC, Police Department	Police Department recruits are periodically trained to identify potential illicit discharges to the MS4 and report observations to the SWQ Division. The Police Department may often be the first response to an accident or illicit discharge.
OKC, Fire Department	Fire Department recuits are periodically trained to identify potential illicit discharges to the MS4 and report observations to the SWQ Division. The Fire Department may often be the first response to an accident or illicit discharge.
OKC, Utilities Department	Utilities Department is charged with the operation and maintenance of waste water collection and potable water distribution. Utilities personnel regularly respond to sanitary sewer bypasses and potable water line leaks. The Utilities Department also provides waste collection services, pre-treatment programs and responds to spills or other discharges related to the collection of those solid wastes.
OKC, Office of Emergency Management	Office of Emergency Management Department liaisons play a part in this office by providing clear communication lines between emergency, non-emergency, State and Federal personnel in response to an event.

Agency	Roles / Responsibility
OKC, Public Information Office	Office is charged with managing public information, media inquiries, developing materials for distribution, and managing the Action Center.
Oklahoma Department of Environmental Quality	ODEQ is the primary NPDES permitting State agency regarding storm water. OKC works interactively with the ODEQ to investigate pollution issues in OKC. Information is shared between the applicable ODEQ Divisions to respond accordingly to spills, complaints and illegal discharges.
Oklahoma Corporation Commission	Storm Water Quality works closely with OCC field managers to respond to Oil and Gas related discharges.
Oklahoma Conservation Commission (staff and Blue Thumb Volunteers)	Conservation Commission staff and volunteers may conduct monitoring in OKC. These monitoring efforts may need follow-up investigation to determine causes/sources of problems.
Oklahoma Department of Wildlife Conservation	Storm Water Quality works cooperatively with the ODWC with regard to incidents which involve the death of aquatic or terrestrial wildlife.
Oklahoma Water Resources Board (OWRB)	Charged with the creation and revision of State Water Quality Standards. Applied Water Quality Standards may be found in OAC Title 785 Chapters 45 and 46 (and appendices).
National Response Center	Spills of significnace which impact Waters of the Nation in reportable quantities are reported to the NRC. The NRC will distribute the report to impacted State, Federal and local agencies for appropriate response.

Response and Reporting

The MS4 Screening provides a method for evaluating the MS4 for illicit discharges. OKC tracks discharges to the source(s) and provides any needed investigation and enforcement actions neccesary to eliminate the source. This response is documented and reports are generated which detail the outcome of the investation. Multiple OKC Departments or external agencies may be involved as needed to ensure that the issue is resolved. Responses may be documented by the following reports:

- Dry Weather Field Screening Follow-up Report

- Utilities By-Pass Reports
- OKC MS4 Annual Report
- OKC SWQ Administrative Enforcement Remedies Document (NOV Form) (see Appendix J)
- OKC SWQ Fish Kill Report
- OKC SWQ Pollution, HAZMAT Database, and NOV databases (and associated database reports)
- OKC Construction and Industrial Inspection Forms
- Pictures
- Scanned Field Notes
- Laboratory Analytical Reports
- Contractor Invoices
- State and Federal Reports

OKC may receive notification from residents, businesses, other agencies or communities regarding suspected discharges. Several reporting methods are available to provide information to OKC. Some of these reporting methods are described below:

- OKC Action Center (Emergency 911, Non-Emergency (405) 297-2535) https://www.okc.gov/residents/action-center
- OKC Police Department (Emergency 911, Non-Emergency (405) 231-2121) https://www.okc.gov/departments/police
- OKC Fire Department (Emergency 911, Non-Emergency (405) 297-3314) https://www.okc.gov/departments/fire
- OKC Utilities Hotline (405) 297-3334 (for water and wastewater emergencies)
- OKC SWQ Emergency Response (405) 297-6833, Non-Emergency (405) 297-1774
- OKC Development Services https://www.okc.gov/departments/development-services

10. Area Specific Requirements

Not applicable.

11. Analysis:

No analysis is required for this SWMP Component.

SWMP Component 17: Supporting Permit Conditions, Monitoring Programs, and Documents

1. Program Requirements:

A. Submit completed interjurisdictional agreement(s) between permittees.
B. Revise and update current SWMP to reflect any new permit requirements.

2. Definitions:

Memorandum of Understanding (MoU) - describes a bilateral or multilateral agreement between two or more parties. It expresses a convergence or will between the parties, indicating an intended common line of action. It is often used in cases where parties either do not imply a legal commitment or in situations where the parties cannot create a legally enforceable agreement.

3. Ordinances:

No ordinances are required for this SWMP Component.

4. Standard Operating Procedures:

No Standard Operating Procedures are required for this SWMP Component.

5. Resources:

The program is funded through the Drainage Utility Fee. The Drainage Utility Fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management. Available funding sources are generally discussed in each applicable SWMP Component. A detailed breakdown is provided in Component 1.

6. General Program Description:

The Supporting Permit Conditions, Monitoring Programs, and Documents SWMP Component provides the relevant documentation regarding interjurisdictional agreements, memorandums of understanding, supporting agencies, and monitoring programs (outside of the standard permit monitoring requirements).

Interjurisdictional agreements to establish and memorialize co-permittee relationships are developed for the Oklahoma Department of Transportation (ODOT) and the Oklahoma Turnpike Association (OTA). ODOT and OTA have each provided SWMPs which are available in Appendix A and Appendix B, respectively. Each Memorandum of Understanding was established cooperatively and are effective perpetually without further Council approval, provided no changes are made to the agreements.

OKC also has agreements with certain communities for services offered through the OKC Household Hazardous Waste Collection Center (see Component 6). Each of the nine agreements must be renewed annually and approved by OKC Council.

Historically, MoUs have been used to conduct limited scope monitoring in adjacent communities and it is anticipated that service agreements (such as monitoring or cooperative educational efforts) will be enacted through the MoU process. The following agreements are currently in place (see Appendix Z:

- ODOT, Co-permittee, OKC Council approved August 1, 2006.
- OTA, Co-permittee, OKC Council approved November 14, 2006.
- City of Bethany, HHWCF Services, OKC Council approved June 21, 2016
  - OKC Council approved continuation of MoU on July 16, 2024
- City of Edmond, HHWCF Services, OKC Council approved June 21, 2016
  - OKC Council approved continuation of MoU on July 16, 2024
- City of El Reno, HHWCF Services, OKC Council approved June 21, 2016
  - OKC Council approved continuation of MoU on July 16, 2024
- City of Moore, HHWCF Services, OKC Council approved June 21, 2016
  - OKC Council approved continuation of MoU on July 16, 2024
- City of Shawnee, HHWCF Services, OKC Council approved June 21, 2016
  - OKC Council approved continuation of MoU on July 16, 2024
- City of the Village, HHWCF Services, OKC Council approved July 19, 2016
  - OKC Council approved continuation of MoU on July 16, 2024
- City of Warr Acres, HHWCF Services, OKC Council approved June 21, 2016
  - OKC Council approved continuation of MoU on July 16, 2024
- City of Yukon, HHWCF Services, OKC Council approved July 5, 2016
  - OKC Council approved continuation of MoU on July 16, 2024
- City of Nichols Hills, HHWCF Services, OKC Council approved February 11, 2025
- Tinker Airforce Base, HHWCF Services. Does not require City Council approval as Tinker Airforce Base is within OKC boundaries.
- City of Norman, Oklahoma City, and Moore MoU for Joint Public Education Efforts on December 5, 2017 (Lake Thunderbird Water Partnership).
- OKC Fire Department, a Departmental agreement was developed in 2025 to allow for delivery of compromised lithium-ion batteries which are recovered from residential emergency response operations or delivered to fire stations from residential customers (see appendix BH).

Storm Water Quality Management Program Audits

The State DEQ performs periodic MS4 permit audits to ensure programs are established to meet the SWMP components, BMP actions, timelines, and associated measurable goals. Historically, OKC has participated in audits in 2007, 2014, and recently 2024. It is beyond the scope of this document to provide the full documentation submitted and received during the audit process. However, the DEQ's response letters which discuss the audits findings are provided in Appendix BD and Appendix BE.

- 2007 Audit, November 5-9, 2007
- 2014 Audit, November 17-21, 2014

- 2024 Audit, May 20-24, 2024

OKC received a total of 114 comments during the three audits conducted by the State DEQ. A summarized table of those comments, organized by year is provided in Appendix BE.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Interjurisdictional Agreements	Develop Interjurisdictional Agreements for OKC Council Approval	Submit MoUs with Applicable Co-Permittees to State DEQ	Update the SWMP one time per 5-year permit cycle (within 3 months from effective date of the permit authorization) or during minor/major SWMP revisions.
Interjurisdictional Agreements	Develop Interjurisdictional Agreements for OKC Council Approval	Update and submit MoUs to OKC Council for approval for Communities Using the HHWCC	Renew agreements annually; Report annually; Update the SWMP with recent MoU approvals on major & minor revisions.
Staffing Levels	Ensure Appropriate Staffing Levels to Support MS4 Permit Required Programs	Report staff numbers and position titles.	Evaluate and report staffing levels annually;
Staffing Levels	Ensure Appropriate Staffing Levels to Support MS4 Permit Required Programs	Report proposed staff increases or decreases.	Critically evaluate staff numbers at the termination of each 5-year permit cycle. Revise the SWMP as necessary to reflect staffing needs. Report Annually.
Budget	Identify Revenue Sources Which Support MS4 Permit Programs	Revenue Sources and total monetary figure collected.	Evaluate all revenue sources and income annually. Report Annually.
Budget	Identify any Current or Proposed Changes to Revenue Sources	Report any proposed changes which have or will impact revenue sources which support the MS4 Permit Programs	Evaluate changes every five years. Report major revisions to the SWMP every five years.
Audits	Participate in State Audit Process	Track, address and report deficiencies identified	Address each deficiency noted to ensure corrective

Task	Metric	Reported Figure	Goal / Reporting
		through the audit process.	actions are accomplished. Not reported.
TMDL	Report Tasks Identified within Applicable TMDL Compliance and Monitoring Plans	TMDL Tasks and Status	Report Annually.

8. Narrative Goals:

Provide interjurisdictional agreements for co-permitting agencies and any other types of agreements with agencies, organizations, or communities through legal tools such as a Memorandum of Understanding or contracts. To provide that the Storm Water Management program is supported by appropriate budget and staff levels. Provide that any TMDLs in OKC, as identified in the MS4 permit authorizations are incorporated into this management plan.

9. Cooperating Departments, Agencies and Communities:

Each SWMP Component details the specific department, agency, or community organizations which implement programs or provide support to managing storm water in OKC. The following listed organizations may be redundant in some cases, however the intent is to provide an understanding of the cooperating organizations, stakeholders, or support to the OKC program.

Agency	Roles / Responsibility
OKC, Public Works Department	The Public Works Department maintains the City's infrastructure, streets, bridges, drainage, and traffic control facilities. The department reviews and issues construction related permits, works with engineers and contractors on capital improvement projects and improvements to City properties. The Streets and Drainage Maintenance Division (Street's) is charged with the operation and maintenance of roadways and drainage networks, among other duties. Street's emergency response provides early detection of illicit or accidental discharges which may impact the MS4. The Division functions as a key role in the activities associated with the ongoing inspection, maintenance and repair of the drainage system and roadways. The Division is responsible for the Salt Storage Facilities. The existing Central Maintenance Facility storage area holds up to 8,000 tons of salt and was put in service in October 2003. An additional facility has been constructed at 11633 N. Santa Fe Avenue.

Agency	Roles / Responsibility
	The Storm Water Quality Management Division is charged with ongoing maintenance, records retention, reporting, education, collaboration, and implementation of permit required programs. Certain programs are implemented solely by the SWQ Division and others are partially or wholly implemented by other City operations and residents. The Drainage Engineering Division is charged with various aspects of drainage review and maintenance of the storm drainage network including drainage plan review, creation and modification of drainage ordinances and approval of drainage related low impact development. The General Obligation Bond Program and Capital Improvement programs work towards the construction of new storm water infrastructure and other building projects such as streets, bridges, municipal facilities, etc. These programs may require working with the US Corps of Engineers, DEQ and other stakeholders to ensure environmental compliance.
OKC, Development Services Department	Development Services includes Animal Welfare (dead animal disposal), Code Enforcement, and the Development Center. The Development Services Department includes building and plumbing inspectors who ensure proper private construction practices are applied through inspection and authorization processes. SWQ and Code Enforcement collaborate on issues which involve the potential contamination of City waterways.
OKC, General Services Department	Fleet Services Division is charged with the operation and maintenance of the City vehicles and equipment fleet. Facilities are currently permitted through the Storm Water Quality Industrial Program. Building Management Division includes the skilled trades, mechanical and electrical support teams for City facilities. Program managers are aware of storm water regulations and address those regulations for in-house and contracted work performed.

Agency	Roles / Responsibility
OKC, Information Technology (IT) Department	Responsible for providing organizational support for technology-based communication and information systems. IT provides support related to Storm Water Quality's databases, Geographic Information Systems, mobile field computers and associated software.
OKC Mayor and City Council	The Mayor and OKC Council approve ordinances, contracts, fees structures, and annual budgets.
OKC, Municipal Counselor's Office and Municipal Courts	All SWQ technicians are municipal code enforcement officers. Permit violations which require additional enforcement action are filed at the OKC Municipal Court.
OKC, Parks and Recreation Department	The Parks and Recreation Department provides a wide range of facilities, educational events, horticultural and garden experiences, facility management and grounds management services. As part of the Grounds Management Programs, Parks and Recreation employees receive annual pesticide, herbicide and fertilizer applicator training. Parks Administration is charged with the drafting of certain revocable permits for specific venues in OKC. These venues and associated activities may include primary body contact to surface waters. The revocable permits contain specific language regarding indicator bacteria numbers and management criteria to implement with regard to those criteria. OKC golf courses currently participate in compensatory mitigation. The James E. Stewart and Trosper Park golf facilities have ongoing compensatory mitigation projects located along the waterways running through the courses. Multiple Golf Courses are permitted through OKC's Pesticide General Permit with ODAFF (see SWMP Component 9).

Agency	Roles / Responsibility
OKC, Police Department	The OKC Police Department, with a uniformed force of 1,169 officers and 300 civilian employees, protects citizens and property from criminal activity, keeps the peace, enforces the law, apprehends criminals and helps prepare cases for prosecution. The OKC Police Department may often be the first responders to an accident or incident which could cause or contribute to storm water pollution. Recruit police officers are periodically trained to understand the role and responsibilities of the Storm Water Quality Division.
OKC, Personnel Department	Provides employee recruitment, selection, classification, compensation, training and benefit services. The Occupational Health Division provides medical surveillance screening to all SWQ emergency response personnel.
OKC, Planning Department	The Planning Department works with residents, businesses and community leaders to shape the appearance, use and development of OKC. The Department places a high priority on implementing new and innovative environmentally friendly development techniques to protect sensitive public and private water supplies. The Comprehensive Planning and Urban Design Division focuses on three primary functions: urban design, comprehensive planning and current planning. Division responsibilities include drafting comprehensive plans and sector plans to provide policymakers, community groups and development interests the policy that ensures growth and development to achieve long-range goals. The Office of Sustainability is responsible for enhancing the City's energy efficiency efforts and promoting sustainability throughout the organization and the community.

Agency	Roles / Responsibility
OKC, Public Information and Marketing (PIM) Department	The Public Information & Marketing Department produces television, radio, web- based and print media informing the public about the City services such as the Household Hazardous Waste Facility services, hours of operation and types of chemicals accepted at the facility. Other types of services provided by PIM include water bill inserts, "News to Know" newsletter, public service announcements (carried on Channel 20) and scheduling interviews with news outlets allow for cost effective program development. PIM also assists with the development of informational brochures for SWQ's Construction, Industrial, HHWCF, Public Outreach, and Environmental sections.
OKC, Fire Department	The OKC Fire Department provides fire prevention, fire suppression, rescue and other emergency services. The department's comprehensive fire prevention programs include code enforcement, arson investigation and public education. The training work section provides state of the art training to fire fighters. Spill prevention and response is a component of OKC's MS4 permit #OKS000101. SWQ and the OKC Fire Department HAZMAT Unit have worked together for many years to prevent, contain and respond to spills that have a potential to pollute the City's MS4(s). The spill response program includes a combination of spill response by each permittee and legal requirements for private entities within the permittees municipal jurisdiction. Periodically, SWQ personnel are invited to speak with new Fire Department recruit classes to provide an understanding of the roles and responsibilities and the Storm Water Quality Division and the MS4 Discharge Permit.
OKC, Utilities Department	The Utilities Department provides the monthly customer service billing. The City includes a monthly storm water utility fee on water/sewer usage bills. This fee has created a dependable, dedicated fund for

Agency	Roles / Responsibility
	maintaining the City's MS4 systems. Fees are based on water meter size. Solid Waste Management includes the bulky collections, cart/curbside collections, field inspections and litter/illegal dumping management. In addition, Solid Waste administers the street sweeping contract for OKC. The SWQ conducts periodic contractor audits to ensure quality control. Line Maintenance Wastewater Section staff work to eliminate sanitary sewer line breaks and overflows. Personnel respond to resident calls and conduct the necessary repairs to public sewer collection lines. Line Maintenance Water Section staff work to eliminate discharges from potable service lines. Personnel respond to resident calls and conduct the necessary repairs to public potable distribution lines. The Utilities Laboratory provides assistance with regard to surface water testing, wastewater testing and potable water testing. The laboratory provides indicator bacteria testing of SWQ samples from the Oklahoma River, revocable permits (where primary body contact occurs) and various other surface water monitoring needs.
OKC, Office of Emergency Management	Office of Emergency Management Department liaisons play a part by providing clear communication lines between emergency, non- emergency, State and Federal personnel in response to an event.
Oklahoma Department of Environmental Quality (ODEQ)	ODEQ is the primary NPDES permitting State agency regarding storm water. OKC works interactively with the ODEQ to investigate pollution issues in OKC. Information is shared between the applicable ODEQ Divisions to respond accordingly to spills, complaints and illegal discharges. ODEQ is the leading State agency regarding TMDL development and compliance oversight.
Oklahoma Corporation Commission (OCC)	Storm Water Quality works closely with OCC field managers to respond to Oil and Gas related discharges.

Agency	Roles / Responsibility
Oklahoma Conservation Commission (staff and Blue Thumb Volunteers)	Conservation Commission staff and volunteers may conduct monitoring in OKC. These monitoring efforts may need follow-up investigation to determine causes/sources of problems. Conservation Commision staff are generally part of TMDL work groups.
Oklahoma Department of Wildlife Conservation (ODWC)	Storm Water Quality works cooperatively with the ODWC with regard to incidents which involve the death of aquatic or terrestrial wildlife.
Oklahoma Water Resources Board (OWRB)	Charged with the creation and revision of State Water Quality Standards. The OWRB may conduct monitoring and assessment of water bodies in OKC. These assessments may include Use Attainability Analysis or assessing water bodies in regard to State Water Quality Standards. The OWRB is generally part of TMDL development work groups.
National Response Center	Spills of significnace which impact Waters of the Nation in reportable quantities are reported to the NRC. The NRC will distribute the report to impacted State, Federal and local agencies for appropriate response.

10. Area Specific Requirements:

Language A and B is taken partially or wholly from the OKC MS4 Permit OKS000101 Part II.B.1-2.

A. Waters identified by the latest CWA § 303(d) list of impaired waters must include all necessary BMPs that will ensure that the impairment caused by identified pollutants in your receiving waters will, in future discharges, not cause, have the reasonable potential to cause, or contribute to an in-stream exceedance of water quality standards.

B. Discharge of a pollutant into any water for which a TMDL or watershed plan in lieu of a TMDL for that pollutant has either been established or approved by the Oklahoma Department of Environmental Quality (ODEQ) or the Environmental Protection Agency (EPA) is prohibited unless your discharge is consistent with that TMDL or watershed plan.

The following listed TMDLs delegate waste load allocations (WLA) to OKC and contain the requirements, such as monitoring and compliance plans, to work towards the pollutant reductions necessary to achieve the WLAs.

<u>Area 1: Lake Thunderbird Report for Nutrient, Turbidity and Dissolved Oxygen TMDLs.</u>

- Lake Thunderbird Watershed in OKC including Hog Creek (OK520810000030_00); West Branch of Hog Creek (OK520810000040_00), East Elm Creek (OK520810000110_00); Elm Creek (OK520810000100_00); West Elm Creek (OK520810000140_00); Kitchen Creek (OK520810000150_00); Kitchen Lake (OK520810000160_00); North Fork of the Little River (OK520810000170_00); and Little River (OK52081000080_00).
- Associated documents include:
    a. Lake Thunderbird Watershed TMDL Monitoring Program Quality Assurance Project Plan. City of Oklahoma City, November 12, 2015.
    b. Lake Thunderbird Total Maximum Daily Load Compliance Plan for the Lake Thunderbird Watershed in Oklahoma City Jurisdictional Areas. City of Oklahoma City, April 8, 2016.
    c. Lake Thunderbird Watershed TMDL Monitoring Program Quality Assurance Project Plan. City of Oklahoma City, August 17, 2018.
    d. Lake Thunderbird Watershed 5-Year Comprehensive Report & Compliance Plan. City of Oklahoma City, March 31, 2022.
    e. City of Oklahoma City TMDL Analysis & Best Management Practices Report - Reducing Nutrient and Sediment Loads into Hog and Elm Creek Watersheds. C.H. Guernsey, Oklahoma Water Survey, and Ellen Stevens. June 21, 2022.
    f. Lake Thunderbird Watershed TMDL Monitoring Program Quality Assurance Project Plan Phase II. City of Oklahoma City, October 21, 2022.
    g. Lake Thunderbird Watershed, Hog Creek and Elm Creek Structural BMP Analysis and Design – Preliminary Engineering Report (Project Number DC-0299 & DC-0300). C.H. Guernsey, Oklahoma Water Survey, and Ellen Stevens, September 2024.

Lake Thunderbird TMDL Action Area Resources:

Monitoring, technical review, and water quality evaluations are funded through the Storm Water Utility. Research and development of structural BMPs are funded through the 2017 General Obligation Bond initiative. Bond sales are not to exceed the budgeted $13,200,000. These funds provide the financial resources for OKC to retain consulting firms for selection of suitable placement locations(s) and for the design and construction of structural control measures.

Lake Thunderbird Annual Report Requirements:

The OKC MS4 Annual Report shall be used to report the annual efforts to meet associated compliance and monitoring plan objectives including:

- Annual milestones;
- Applicable Training (training subjects and hours);
- Meetings and other public outreach events attended;
- Non-structural load reductions;
- Structural load reductions;
- A discussion of any model changes (such as new land cover datasets, population increases, permit increase or decrease); and
- Monitoring data summary and estimated annual loading.

Area 2: Bacteria and Turbidity Total Maximum Daily Loads for the Cimarron River Study Area, Oklahoma (OK620900, OK620910)

- Bluff Creek Watershed (OK620910040140_00) from Lake Hefner downstream to OKC boundary.

Area 3: Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520). Association of Central Oklahoma Governments. March 2010.

- Affected area water bodies include Mustang Creek (OK520520000240_00); North Canadian River (OK520520000250_00); North Canadian River (OK520520000210_00); North Canadian River (OK520520000010_40); Crooked Oak Creek (OK520520000150_00); North Canadian River (OK52052000010_30); Crutcho Creek (OK520520000070_00); North Canadian River (OK520520000010_20); and North Canadian River (OK520520000010_10).

- Associated documents:

    a. North Canadian/Oklahoma River Bacteria Implentation Plan (Monitoring). 2008. City of Oklahoma City.
    b. North Canadian River Bacteria Monitoring Program Quality Assurance Project Plan. December 7, 2023. City of Oklahoma City.
    c. North Canadian River Bacteria Monitoring Program Quality Assurance Project Plan. June 2025 (draft). City of Oklahoma City.

11. Analysis:

No analysis is required for this SWMP Component.

SWMP Component 18: Total Maximum Daily Load (TMDL)

1. Program Requirements:

A. Prepare an approvable TMDL Pollutant Reduction Plan in accordance with Part I.G.1.g. for the stream segments with existing approved TMDLs.
B. Prepare either a TMDL Pollutant Monitoring Plan or a commitment to participate in a coordinated regional TMDL Pollutant Monitoring Plan.
C. Develop a format/template for a TMDL implementation report in accordance with the requirements as specified in Part I.G.1.e. to be included as part of future annual reports. The report shall include the status and actions taken by the permittee to implement the TMDL Pollutant Reduction and Monitoring Plans.
D. Lake Thunderbird TMDLs. The Lake Thunderbird TMDLs shall continue to be implemented in accordance with the 2013 TMDL report's Appendix E – Stormwater Permitting Requirements and Presumptive BMPs Approach. This shall include continuing to implement and revise as necessary the approved TMDL Compliance Plan and Pollutant Monitoring and Tracking Program. A TMDL implementation report shall be included in the annual report, and compliance with the TMDL and progress toward achieving the WLAs and load reduction goals shall be evaluated in the fifth-year annual report.

2. Definitions:

Quality Assurance Project Plan (QAPP) – a document that outlines the procedures that those who conduct a monitoring project will take to ensure that the data they collect and analyze meets project requirements.

Point Sources – any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flow from irrigated agriculture or agricultural stormwater runoff.

Total Maximum Daily Load (TMDL) – The sum of the individual wasteload allocations (WLAs) for point sources, margin of safety, reserves, and load allocations (LA) for nonpoint sources and natural background. A TMDL is a calculation of the maximum amount of a pollutant that a water body can receive and still meet Water Quality Standards, and an allocation of that amount to the pollutant's sources.

Wasteload Allocation (WLA) – the fraction of the total pollutant load apportioned to all point sources, and includes stormwater discharges regulated as point sources which are identified in the TMDL as WLA_MS4. WLA establish water quality-based effluent limits for point source discharges.

3. Ordinances:

Ordinance	Title	Language / Description
§57-135	Inspection	The Director shall have the right to inspect any on-site detention or retention facility at any reasonable time to determine if it is in compliance with the approved design and is capable of functioning properly. The Director shall have the right to inspect any property within the City to determine the source, quantity, quality or flow rate of stormwater and to determine the source and nature of pollutants, hazards and/or activities creating or promoting same.
§57-172	Illicit Connections and Improper Disposal	**(a)** The Manager shall take appropriate steps to detect and eliminate illicit connections to the City Stormwater System, including the adoption of a program to screen illicit discharges and identify their sources. **(b)** The Manager shall take appropriate steps to detect and eliminate improper discharges, including programs to screen for improper disposal and programs to provide for public education, public information and other appropriate activities to facilitate the proper management and disposal of used oil, toxic materials, and hazardous household waste.
§57-178	Illicit Discharge and Illegal Dumping	Ordinance describes prohibited discharges to the OKC MS4.

4. Standard Operating Procedures:

SOP	Name	Revision
SOP #1	Preparing Spiked, Duplicate and Blank Samples for Routine Quality Assurance	5/18/2022
SOP #5	pH Measurement	8/31/2022
SOP #7	Water Temperature Measurement	1/5/2024
SOP #8	Flow Measurement (SSOM)	10/28/2022
SOP #9	Flow Measurement (Meter Method)	9/27/2022
SOP #11	Inorganic and Bacteria Sample Collection	10/31/2023
SOP #14	Reagent & Standards Shelf Life	10/28/2022
SOP #16	Dry Weather / Illicit Discharge Monitoring	9/30/2022
SOP #19	Chain of Custody and Sample Labeling	10/4/2022
SOP #22	Optical Brightener Monitoring	10/28/2022
SOP #23	Global Positioning System	10/28/2022
SOP #25	Flow Measurement (Timed Volume Method)	3/7/2022
SOP #26	Decontamination Procedures	10/6/2022
SOP #27	Dye Testing	10/7/2022
SOP #31	Storm Sewer Camera Unit (Cues Steerable Pipe Ranger with OZII Camera Unit)	9/20/2023
SOP #32a	Gas Alert MaxXT II 1,2,3,4 gas Detector	10/7/2022
SOP #32b	Gas Alert Micro Clip XL1, 2, 3, and 4-Gas Detector	9/7/2023
SOP #52	Chlorine Measurement (using HACH Pocket Chlorimeter II)	10/31/2023

5. Resources:

The Storm Water Quality Program is funded through the Drainage Utility Fee. This fee (including reimbursements, permits, interests, etc.) provides ~$18-42 million for operating and capital expenses related to storm water management.

Monitoring programs development and implementation are funded through The Environmental Water Quality Program Account. The FY24/25 budget for this account is $963,066. Applicable laboratory services are provided by the Utilities Laboratory (fecal indicator bacteria only) or by a contracted private laboratory service.

Engineering services and construction of structural control measures may be funded through current and future general bond obligation authorizations or through the Drainage Utility fee collections.

6. General Program Description:

Discharge of a pollutant into any water from which a TMDL or watershed plan for that pollutant has been established or approved by DEQ or the EPA is prohibited unless the discharge is consistent with that TMDL or watershed plan.

Approved TMDLs as provided in the most recent MS4 Discharge Permit authorization for OKC (provided in Part I, Table I-1) include the following:

1. Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520), March 2010, Association of Central Oklahoma Governments (ACOG).
    a. Mustang Creek - OK520520000240_00
    b. North Canadian River - OK520520000250_00
    c. North Canadian River - OK520520000210_00
    d. North Canadian River - OK520520000010_40
    e. Crooked Oak Creek - OK520520000150_00
    f. North Canadian River - OK52052000010_30
    g. Crutcho Creek - OK520520000070_00
    h. North Canadian River - OK520520000010_20
    i. North Canadian River - OK520520000010_10

2. Lake Thunderbird Report for Nutrient, Turbidity, and Dissolved Oxygen TMDLs. November 2013, Dynamic Solutions.
    a. Lake Thunderbird (and watershed) - OK520810000020_00

Lake Thunderbird Wasteload Allocations and Implementation Monitoring:

The Lake Thunderbird Report for Nutrient, Turbidity, and Dissolved Oxygen TMDLs requires the three permitted communities in the watershed to reduce total nitrogen, total phosphorus, and total suspended solids by 35% to meet the wasteload allocations. The wasteload allocations for OKC, Norman, and Moore are provided in the following table.

Water Quality Constituent	TMDL	LA	WLA				MOS
			Total	Moore	Norman	OKC	
	(Kg/day)	(Kg/day)	(Kg/day)	(Kg/day)	(Kg/day)	(Kg/day)	(Kg/day)
Total Nitrogen (TN)	807.7	21.3	786.4	205.1	319.4	261.8	Implicit
Total Phosphorus (TP)	158.4	4.4	154.0	44.5	60.1	49.4	Implicit
CBOD	2,480.8	57.4	2,423.4	781.3	955.6	686.5	Implicit
Suspended solids (TSS)	76,950.8	2,068.7	74,882.1	16,236.0	31,596.1	27,049.9	Implicit

Based on the 2008 DEQ Model, the long-term averages for total nitrogen, phosphorus, and suspended solids are specified in the table below. For monitoring application purposes, the TMDL provides "…from a practical perspective must be managed on a long-term basis with loads expressed typically as pounds or kilograms per year. However, a recent court decision (Friends of the Earth, Inc. v. EPA, et. al., often referred to as the Anacostia Decision) states that TMDLs must include a daily expression (Grumbles, 2006). The TMDL goes on to state "As such, it is important to note that expressing this TMDL on a daily basis does not imply that a daily response to a daily load from the watershed is practical from an implementation perspective." Therefore, OKC uses the reduced LTA for practical comparisons to determine compliance with the TMDL.

Water Quality Constituent	OKC Long-Term Average (KG/DAY)	OKC Reduced Long-Term Average (KG/DAY)
Total Nitrogen	104.4	67.9
Total Phosphorus	19.7	12.8
CBOD	275.5	179.0
Suspended Solids	11,067.6	7,194.0

The maximum daily load (MDL) is also assessed but no longer reported. The assumption is that exceedance of the MDL statistically ensures that the TMDL will not be met. However, OKC has monitored the water quality within the OKC drainage areas and verified MDL violations, but with the annual load below the LTA. For that reason, OKC has selected to monitor and report the LTA.

A 2018 study was funded by OKC to re-evaluate the 2008 DEQ TMDL using recent and comprehensive data to model the OKC drainage areas contributing to Lake Thunderbird. Unfortunately, the study indicated the DEQ model failed validation with 2018 meteorological data and 2016 land use data when compared to observed field measurements. OKC's updated model was run with 2008-2009 data to compare to the DEQ model, 2018 data for calibrations, and 2020 data for validation. Using the OKC model, the outputs for TSS, TP and TN are all greater than their respective LTA. Based on these data, a 43% reduction in TSS, a 12% reduction in TP, and a 7% reduction in TN are needed to meet the LTA. These results shifted the primary pollutant reduction focus towards TSS removal with secondary focus on TP and TN.

Monitoring results indicate sporadic LTA non-compliance for all measured parameters. TSS exhibited the highest non-compliance (see highlighted values) followed by TN and TP. These results certainly support the implementation of non-structural and structural BMPs in the watershed to reduce pollutant loading.

Parameter	2018	2019	2020	2021	2022	2023	2024	Reduced LTA
Total Phosphorus	11.8	15.3	6.6	9.7	21.6	22	11.8	**13.2**
Total Suspended Solids	14,241.7	40,253.1	4,354.5	10,760.5	16,115.0	12,351.4	6,185.5	**7,392.46**
Total Nitrogen	NM	274.77	103.9	112.2	111	113.3	59.2	**66.69**

OKC has developed a monitoring QAPP and a separate compliance plan for Lake Thunderbird watershed. These documents establish monitoring goals with data quality objectives and provide the strategies and compliance goals for structural/non-structural best practices to reduce contributing pollutant sources in the watershed.

North Canadian River Bacteria TMDL Percent Reduction Goals and Implementation Monitoring:

The Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520), approved in March 2010, was added to the 2024 OKC MS4 permit authorization. The TMDL details eleven impaired WBIDs in the North Canadian River watershed, however only nine segments are within OKC. Impairments include the bacterial parameters *Escherichia coliform* (*E. coli*), fecal coliform, and *Enterococcus*. Fecal coliform has since been removed from water quality standards for the assessment of Primary Body Contact Recreation, the 2024 OKC MS4 Permit language provides the following guidance. "*The TMDL established a required percent reduction for fecal coliform for this segment, but did not establish required percent reductions for E. coli or enterococcus. While Oklahoma WQS no longer uses fecal coliform as a bacterial indicator, the TMDL and associated WLAs and required percent reduction remain in effect. The required percent reductions for bacteria for this stream segment shall be applied to E. coli or enterococci until such time as a new TMDL is approved or established*."

Regarding the bacteria TMDL stream segments within OKC's jurisdiction, the percent reduction goals (PRGs) range from 28.1% to 99.9%. As indicated, the PRGs for fecal coliform may be substituted for *E. coli* or *Enterococcus*. OKC will manage these reductions through measuring *E. coli* as the primary indicator in lieu of fecal coliform. However, additional monitoring will be conducted at the North Canadian River (250_00) to determine if a relevant standard violation exists.

		Percent Reduction Goals		
Water Body Name	**WBID**	**Fecal Coliform**	**E. coli**	**Enterococcus**
North Canadian River	OK520520000010_10	78.9% (I)		97% (GM)
North Canadian River	OK520520000010_20	48.6% (I)		98.9 (GM)
North Canadian River	OK520520000010_30	86.7% (I)	37.6% (GM)	98% (GM)
North Canadian River	OK520520000010_40	48.6% (I)		98.1% (GM)
North Canadian River	OK520520000210_00			92.9% (GM)
North Canadian River	OK520520000250_00	67.3 (I)		
Crutcho Creek	OK520520000070_00	28.1% (I)		
Crooked Oak Creek	OK520520000150_00	72.4% (I)	66.6% (GM)	

Mustang Creek	OK520520000240_00		42.6% (GM)	

OKC developed the North Canadian River Bacteria Monitoring Program Quality Assurance Project Plan to ensure mandated monitoring requirements are achieved in the TMDL areas. This plan describes fixed-interval monitoring for the nine WBIDs in OKC's jurisdiction. The QAPP also describes a distributed sampling program to determine elevated bacteria contributions from lateral tributaries of the listed WBIDs.

To achieve these mandated reductions, OKC will use an iterative BMP approach which may include structural and/or non-structural approaches. Reductions may be calculated using presumed reductions based on published peer reviewed literature, manufacturer provided reductions, or monitoring results. Structural and non-structural BMPs may be used to account for bacterial removals and models may be used to estimate reductions. Non-structural BMPs may include:

- Street Sweeping / Trash Management Programs
- Sanitary Sewer Overflow (SSO) response & QA follow-ups
- Sanitary Sewer Complaint Response and Corrective Repairs
- Sanitary Sewer Fats, Oils, and Grease Reduction Programs
- Septic Tank Response & State Referral
- Street / Bike Lane Sweeping
- Catch Basin Cleaning / Storm Drain Inserts
- Waste Storage Enforcement
- Maintaining / Protecting City-Owned Vegetative Buffers
- Illicit Discharge Detection and Elimination Programs
- Public Area Pet Waste Stations
- Other Targeted Monitoring Programs
- Complaint & Spill Response Programs
- Outreach Messaging

Structural BMPs include:

- Hydrodynamic Separation Units
- Low Impact Development / Green Infrastructure
- Storm Drain Inserts
- Sand Filtration
- Bio-infiltration
- Grass Swales
- Pervious Pavement
- Pet Waste Stations

Annual reporting is required for approved TMDLs. OKC will update existing annual report templates to provide monitoring summaries and actions taken to reduce bacterial contributions to the MS4. As provided in the 2024 OKC MS4 Permit authorization, the annual report shall include:

- Relevant actions that affect MS4 discharges to TMDL waters.
- Status of applicable TMDL implementation schedule milestones.
- Evaluation of effectiveness of the pollutant reduction plan and monitoring programs to ensure progress towards meeting associated reduction goals.
- Evaluation of the implemented BMPs to monitor or assess progress to reduce POCs.
- Summary of revisions made to address new or revised TMDLs or Watershed Based Plans approved after permit issuance.

Primary operating documents include a Quality Assurance Project Plan and a pollutant reduction plan for the TMDL listed water bodies.

7. Component Metrics:

Task	Metric	Reported Figure	Goal / Reporting
Interjurisdictional Agreements	Develop Interjurisdictional Agreements for OKC Council Approval	Submit applicable MoUs with Applicable Co-Permittees to State DEQ	One time per 5-year permit cycle (if applicable); 3 months from effective date of the permit authorization.
Floatable/Trash Management Programs	Report Floatable Debris / Trash Management Program	Pounds trash and debris removed by City programs	Maintain at least one station in each listed watershed (or as required in the associated compliance plan). Reported annually.
Floatable / Trash Management Programs	Report Floatable Debris / Trash Management	Street sweeping pounds removed	Report number of lane miles swept and pounds removed. Reported annually.
Floatable / Trash Management Programs	Report Floatable Debris / Trash Management	Report Waterway Clean Sweep volunteer numbers, number bags collected, pounds debris removed.	Provide at least one cleanup annually in the TMDL action areas. Report annually.
Sanitary Sewer	Report SSOs	Report the number of total SSOs within the TMDL watersheds	Report total SSOs within TMDL watershed and quality control inspections for 100% with reported environmental impacts and 25% with no reported impacts. Reported annually.

Task	Metric	Reported Figure	Goal / Reporting
Septic Tanks	Septic Tank Investigations	Report septic tank investigations and referrals to the State of Oklahoma.	No goal established; demand based. Report annually.
Emergency / Complaints Response	Emergency and Complaint Response	Report residential, commercial, and emergency responses in the TMDL action areas.	No goal established; demand based. Report annually.
Outreach	Outreach Contacts	Number of outreach contacts in the TMDL action area (reported as a percentage of total annual storm water contacts proportioned by the TMDL watershed area)	A percentage of ~6 million contacts annually. Report annually.
Outreach	Targeted Outreach	Use various outreach methods to target businesses and residents with bacteria reduction messaging	No goal established. Report annually.
Outreach	Storm Drain Marking Program	Number of storm drain markers placed in the TMDL Action Areas.	Minimum city-wide installations of 500 markers, annually. Report annually.
Documentation	QAPP	Develop or update a QAPP for the Lake Thunderbird TMDL	Develop or update an approvable TMDL QAPP for the Lake Thunderbird Report for Nutrient, Turbidity, and Dissolved Oxygen TMDL monitoring programs.
Documentation	QAPP	Develop a QAPP for the North Canadian Bacteria TMDL	Develop an approvable TMDL QAPP for the Bacteria TMDL for North Canadian River Area (OK520520) monitoring programs.
TMDL	Longterm Average (LTA)	Calculate the LTA of the contributing TMDL action area.	Conduct monitoring to calculate LTA (see associated QAPP); Report annually.
TMDL	Structural Control Measure (SCM) Load	Calculate load reductions of SCMs	Model or measure load reduction of SCM. Report

Task	Metric	Reported Figure	Goal / Reporting
	Reductions		annually.
TMDL	Non-SCM Load Reductions	Calculate load reductions of non-SCMs	Model or measure load reduction of non-SCM. Reported annually.
TMDL	Calculate Bacteria Percent Reduction	Monitor, model or calculate percent bacteria reduction for SCMs	Goals based on PRG. Report annually.

8. Narrative Goals:

Develop relevant QAPPs, bacteria reduction plans or compliance plans to work towards progress of meeting established TMDLs. Conduct monitoring as required by OKC's permit and to meet TMDL requirements. Ensure proper documentation and review annual milestones as provided in reduction and compliance plans. Adjust the SWMP as needed to increase effective BMPs and decrease ineffective measures. Lastly, to ensure proper reporting of watershed loading and/or compliance monitoring.

9. Cooperating Departments, Agencies and Communities:

Each SWMP Component details the specific department, agency, or community organizations which implement programs or provide support to managing storm water in OKC. The following listed organizations may be redundant in some cases, however the intent is to provide an understanding of the cooperating organizations that are stakeholders or support to the OKC program.

Agency	Roles / Responsibility
OKC, Public Works Department	The Public Works Department maintains the City's infrastructure, streets, bridges, drainage, and traffic control facilities. The department reviews and issues construction related permits, works with engineers and contractors on capital improvement projects and improvements to City properties. The Streets and Drainage Maintenance Division is charged with the operation and maintenance of roadways and drainage networks among other duties. Streets emergency response provides early detection of illicit or accidental discharges which may impact the MS4. The Division functions as a key role in the activities associated with the ongoing inspection, maintenance and repair of the drainage system and roadways.

Agency	Roles / Responsibility
	The Storm Water Quality Management Division is charged with the ongoing maintenance, records retention, reporting, education, collaboration, and implementation of the permit required programs. Certain programs are implemented solely by the SWQ Division others are partially or wholly implemented by other programs and residents. The Drainage Engineering Division is charged with various aspects of drainage review and maintenance of the storm drainage network including drainage plan review, creation and modification of drainage ordinances and approval of drainage related low impact development. The General Obligation Bond Program and Capital Improvement programs work towards the construction of new storm water infrastructure and other building projects such as streets, bridges, municipal facilities, etc. These programs may require working with the US Corps of Engineers, DEQ and other stakeholders to ensure environmental compliance.
OKC, Development Services Department	Development Services includes Animal Welfare (dead animal disposal), Code Enforcement, and the Development Center. The Development Services Department includes building and plumbing inspectors who ensure proper private construction practices are applied through inspection and authorization processes. SWQ and Code Enforcement collaborate on issues that involve the potential contamination of City waterways.
OKC, General Services Department	Fleet Services Division is charged with the operation and maintenance of the City vehicles and equipment fleet. Facilities are currently permitted through the Storm Water Quality Industrial Program. The Building Management Division includes the skilled trades, mechanical and electrical support teams for the management, update, and maintenance of City facilities. Program managers are aware of storm water

Agency	Roles / Responsibility
	regulations and address those regulations for in-house and contracted work performed.
OKC, Information Technology (IT) Department	Responsible for providing organizational support for technology-based communication and information systems. IT provides support related to Storm Water Quality's databases, Geographic Information Systems, mobile field computers and associated software.
OKC Mayor and City Council	The Mayor and OKC Council approve ordinances, changes to ordinances, contracts, fees and annual budgets.
OKC, Municipal Counselor's Office and Municipal Courts	All SWQ technicians are municipal code enforcement officers. Permit violations which require additional enforcement action are filed at the OKC Municipal Court.
OKC, Parks and Recreation Department	The Parks and Recreation Department provides a wide range of facilities, educational events, horticultural and garden experiences, facility management and grounds management services. As part of the Grounds Management Programs, Parks and Recreation employees receive annual pesticide, herbicide and fertilizer applicator training. Parks Administration is charged with the drafting of certain revocable permits for specific venues in OKC. These venues and associated activities may include primary body contact to surface waters. The revocable permits contain specific language regarding indicator bacteria numbers and management criteria to implement with regard to those criteria. OKC golf courses currently participate in compensatory mitigation. The James E. Stewart and Trosper Park golf facilities have ongoing compensatory mitigation projects located along the waterways running through the courses. Multiple Golf Courses are permitted through OKC's Pesticide General Permit with ODAFF (see SWMP Component 9).

Agency	Roles / Responsibility
OKC, Police Department	The OKC Police Department, with a uniformed force of 1,169 officers and 300 civilian employees, protects citizens and property from criminal activity, keeps the peace, enforces the law, apprehends criminals and helps prepare cases for prosecution. The OKC Police Department may often be the first responders to an accident or incident which could cause or contribute to storm water pollution. Recruit police officers are periodically trained to understand the role and responsibilities of the Storm Water Quality Division.
OKC, Personnel Department	Provides employee recruitment, selection, classification, compensation, training and benefit services. The Occupational Health Division provides medical surveillance screening to all SWQ emergency response personnel.
OKC, Planning Department	The Planning Department works with residents, businesses and community leaders to shape the appearance, use and development of OKC. The Department places a high priority on implementing new and innovative environmentally friendly development techniques to protect sensitive public and private water supplies. The Comprehensive Planning and Urban Design Division focuses on three primary functions: urban design, comprehensive planning and current planning. Division responsibilities include drafting comprehensive plans and sector plans to provide policymakers, community groups and development interests the policy that ensures growth and development to achieve long-range goals. The Office of Sustainability is responsible for enhancing the City's energy efficiency efforts and promoting sustainability throughout the organization and the community.

Agency	Roles / Responsibility
OKC, Public Information and Marketing (PIM) Department	The Public Information & Marketing Department produces television, radio, web-based and print media informing the public about the City services such as the Household Hazardous Waste Facility services, hours of operation, and types of chemicals accepted at the facility. Other types of services provided by PIM include water bill inserts, "News to Know" newsletter, public service announcements (carried on Channel 20) and scheduling interviews with news outlets allow for cost effective program development. PIM also assists with the development of informational brochures for SWQ's Construction, Industrial, HHWCF, Public Outreach, and Environmental sections.
OKC, Fire Department	The OKC Fire Department provides fire prevention, fire suppression, rescue and other emergency services. The department's comprehensive fire prevention programs include code enforcement, arson investigation and public education. The training section provides state of the art training for fire fighters. Spill prevention and response is a component of OKC's MS4 permit #OKS000101. SWQ and the OKC Fire Department HAZMAT Unit have worked together for many years to prevent, contain and respond to spills that have a potential to pollute the City's MS4(s). The spill response program includes a combination of spill response by each permittee and legal requirements for private entities within the permittee's municipal jurisdiction. Periodically, SWQ personnel are invited to speak with new Fire Department recruit classes to provide them with an understanding of the roles and responsibilities and the Storm Water Quality Division and the MS4 Discharge Permit.
OKC, Utilities Department	The Utilities Department provides the monthly customer service billing. The City includes a monthly storm water utility fee on water/sewer usage bills.

Agency	Roles / Responsibility
	This fee has created a dependable, dedicated fund for maintaining the City's MS4 systems. Fees are based on water meter size. Solid Waste Management includes the bulky collections, cart/curbside collections, field inspections and litter/illegal dumping management. In addition, Solid Waste administers the street sweeping contract for OKC. SWQ conducts periodic contractor audits to ensure quality control. Line Maintenance Wastewater Section staff work to eliminate sanitary sewer line breaks and overflows. Personnel respond to resident calls and conduct the necessary repairs to public sewer collection lines. Line Maintenance Water Section staff work to eliminate discharges from potable service lines. Personnel respond to resident calls and conduct the necessary repairs to public potable distribution lines. The Utilities Laboratory provides assistance with surface water testing, wastewater testing and potable water testing. The laboratory provides indicator bacteria testing of SWQ samples from the Oklahoma River, revocable permits (where primary body contact occurs) and various other surface water monitoring needs.
OKC, Office of Emergency Management	Office of Emergency Management Department liaisons play a part by providing clear communication lines between emergency, non- emergency, State and Federal personnel in response to an event.
Oklahoma Department of Environmental Quality (ODEQ)	DEQ is the primary NPDES permitting State agency regarding storm water. OKC works interactively with the DEQ to investigate pollution issues in OKC. Information is shared between the applicable DEQ Divisions to respond accordingly to spills, complaints and illegal discharges. DEQ is the leading State agency regarding TMDL development and compliance oversight. The agency is also charged with the creation and revision of State Water Quality Standards.

Agency	Roles / Responsibility
Oklahoma Conservation Commission (staff and Blue Thumb Volunteers)	Conservation Commission staff and volunteer programs may conduct monitoring in OKC. These monitoring efforts may need follow-up investigation to determine causes/sources of problems. Conservation Commission staff are generally part of TMDL work groups.
Oklahoma Department of Wildlife Conservation (ODWC)	Storm Water Quality works cooperatively with the ODWC with regard to incidents which involve the death of aquatic or terrestrial wildlife.
US Fish and Wildlife Service	SWQ closely works with the USFWS during release events which have caused harm or death to plants, fish, or other wildlife which are under Federal jurisdiction. USFWS is the principal partner for administering the Endangered Species Act.
Oklahoma Water Resources Board (OWRB)	The OWRB may conduct monitoring and assessment of water bodies in OKC. These assessments may include Use Attainability Analysis or assessing water bodies in regard to State Water Quality Standards. The OWRB is generally part of TMDL development work groups.
Lake Thunderbird Watershed Partnership	Interjurisdictional agreement to assist involved communities in sharing information and resources for education and data sharing.

10. Area Specific Requirements:

		Percent Reduction Goals		
Water Body Name	**WBID**	**Fecal Coliform**	**E. coli**	**Enterococcus**
North Canadian River	OK520520000010_10	78.9% (I)		97% (GM)
North Canadian River	OK520520000010_20	48.6% (I)		98.9 (GM)
North Canadian River	OK520520000010_30	86.7% (I)	37.6% (GM)	98% (GM)
North Canadian River	OK520520000010_40	48.6% (I)		98.1% (GM)
North Canadian River	OK520520000210_00			92.9% (GM)
North Canadian River	OK520520000250_00	67.3 (I)		
Crutcho Creek	OK520520000070_00	28.1% (I)		
Crooked Oak Creek	OK520520000150_00	72.4% (I)	66.6% (GM)	
Mustang Creek	OK520520000240_00		42.6% (GM)	

As provided in the percent reduction tables for the North Canadian River Bacteria TMDL, OKC has submitted a comment to the DEQ regarding implementation of TMDLs which are based on an obsolete standard. Two stream segments, the North Canadian River (OK520520000250_00) and Crutcho Creek (OK520520000070_00) had TMDLs and associated PRGs based on the historical Fecal Coliform WQS. The DEQ, as informed by EPA provided a written response to OKC's comment stating "EPA has directed that these Fecal Coliform TMDLs and

associated WLAs and required PRGs remain in effect and the required PRGs should be applied to *E. coli* or *Enterococcus* until such time as a new TMDLs for *E. coli* and/or *Enterococcus* are approved or established." OKC certainly understands the DEQ's position, however based upon the poor correlation of Fecal Coliforms to human health concerns (see table below), Fecal Coliforms were removed from WQS. Transferring the PRGs of Fecal Coliforms to another bacteria indicator is indefensible from the standpoint of the risk associated with primary body contact and human illness rates in freshwater systems. OKC's standpoint is that additional data is needed to confirm a current WQS violation of *E. coli* or *Enterococcus* before expending limited resources based on an obsolete standard. Recent data for current standards can be used to develop the appropriate PRGs for the subject stream segments.

Indicator Bacteria	**Correlation Coefficient**
Enterococci	0.74
E. coli	0.80
Fecal Coliforms	-0.08

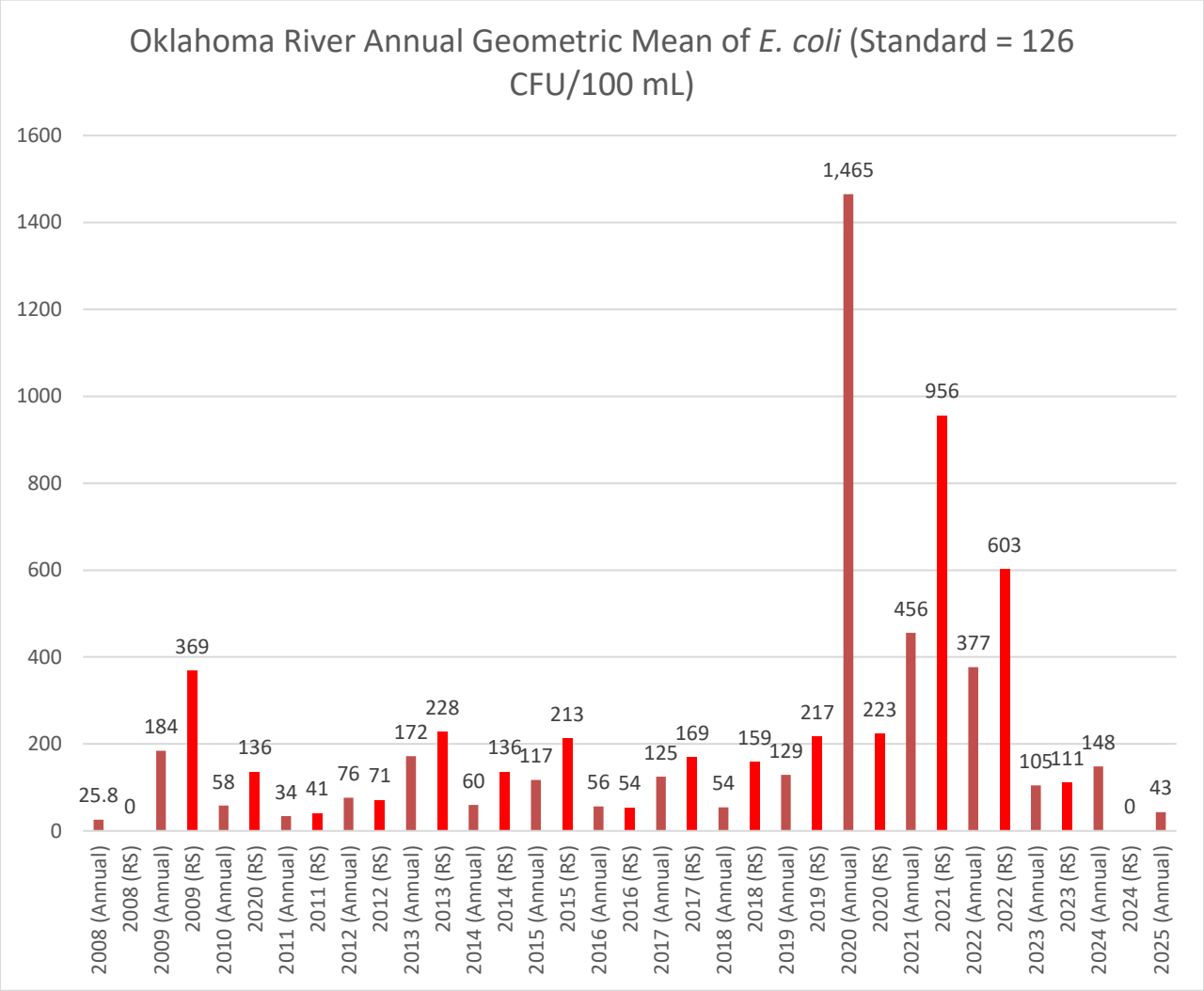
11. Analysis:

OKC has monitored fecal indicator bacteria within segments of the North Canadian River since 2008. To date, 1,024 bacteria sampling events have been attempted at one or more site locations, within the Oklahoma River segment. Sample reports indicate the collection of bacterial samples for *E. coli* and *Enterococcus* totaling 1,013 and 1,042, respectively. Quality control included 279 blanks (field, trip, and equipment blanks), duplicates/splits, and replicate samples (see table below) which accounted for a 27.4% quality assurance rate.

Blank	**Duplicate**	**Equipment Blank**	**Field Blank**	**Replicate**	**Trip Blank**
38	110	20	4	42	65

Data meeting OKC's current quality assurance standards were used to develop annual basic descriptive statistics to characterize the bacteria quality for the OK520520000010_40 WBID segment along the Oklahoma River. Both 2008 and 2025 lack sufficient data coverage for annual summarization, however, sufficient data was present for the analysis of *E. coli* during 2009-2023 and *Enterococci* during 2009-2022 (see Appendix AZ and BA). As an annual rollup summary, OKC calculated the minimums, maximum, average, median, geometric mean, and sample numbers. Using the *E. coli* annual geometric means as a benchmark, OKC exceeded 126 CFU/100 mLs during 7 of 18 years (38.8%). *Enterococci* exceeded the 33 CFU/100 mL in all years assessed.

In the context of the primary body contact recreation WQS, the recreational season (May 1 – September 30) is relevant to characterize for TMDL purposes. A second analysis was performed to describe the swimming/permit violation rates, minimums, maximums, averages, medians, geometric means, and sample numbers during the recreational season. The WBID segment exceeded the geometric mean for *E. coli* on 11 of the 15 years assessed (~73%). *Enterococci* results exceeded the geometric mean for 13 of the 14 years assessed (~92.8%). Single sample criteria violations were also assessed using 407 CFU/100 mL for *E. coli* and 108 for *Enterococci*. *E. coli* violations ranged from 13%-63.6%. *Enterococci* violations ranged 22%-86.4% (Note: a 100% violation rate was reported for the 2023 recreational season and was based on a single sample collected for that year).


Oklahoma River Annual Geometric Mean of E. coli (Standard = 126 CFU/100 mL)
1600
1400
1200
1000
800
600
400
200
0
25.8
0
184
369
58
136
34
41
76
71
172
228
60
136
117
213
56
54
125
169
54
159
129
217
1,465
223
456
956
377
603
105
111
148
0
43
2008 (Annual)
2008 (RS)
2009 (Annual)
2009 (RS)
2010 (Annual)
2020 (RS)
2011 (Annual)
2011 (RS)
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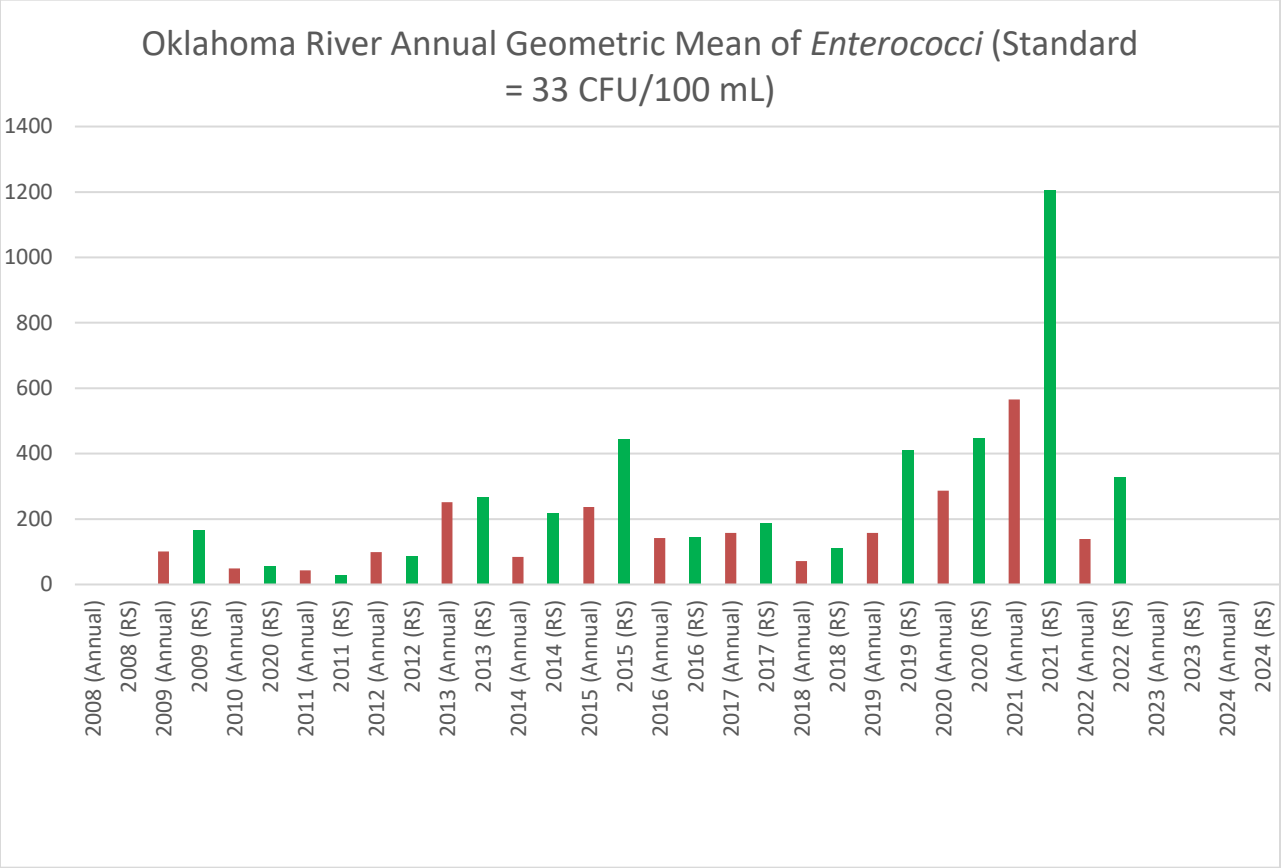
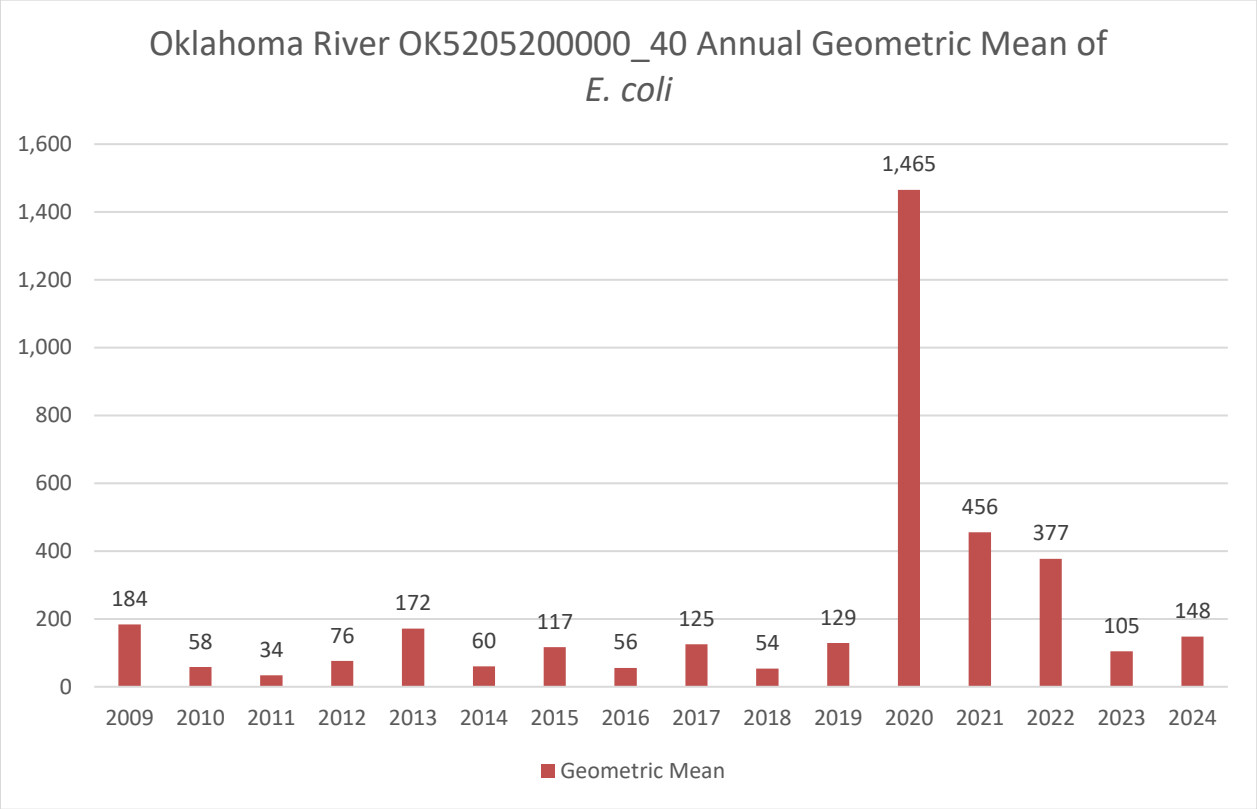
2023 (Annual)
2023 (RS)
2024 (Annual)
2024 (RS)
2025 (Annual)



This segment of the Oklahoma River has a rich dataset which validates the TMDL. The data provides an understanding of the year-round and recreational season indicator bacteria conditions. Further analysis of these data will include segregation into the categories of dry, moist, and wet conditions to better understand weather influence on the waterway's risk to PBCR. The information also provides some insight into potential metrics for describing other WBID segments for comparative purposes.


Oklahoma River OK5205200000_40 Annual Geometric Mean of E. coli
1,600
1,400
1,200
1,000
800
600
400
200
0
184
58
34
76
172
60
117
56
125
54
129
1,465
456
377
105
148
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
Geometric Mean

Appendix A: Oklahoma Department of Transportation SWMP for the OKC Jurisdiction

OKLAHOMA DEPARTMENT OF TRANSPORTATION

REVISED STORMWATER MANAGEMENT PROGRAM (SWMP)

PERMIT NO. OKS000101
(Oklahoma City)

Revised January 2025

1. Introduction

Under Oklahoma Discharge Elimination System Permit (OPDES) No. OKS000101 the Oklahoma Department of Transportation (ODOT) is authorized to discharge pollutants associated with stormwater from rights of way within the City of Oklahoma City. In accordance with that permit, ODOT is responsible to provide a revised Stormwater Management Program (SWMP) six months from the effective date of the permit which is May 1, 2024. - This document is the revised SWMP prepared in accordance with this requirement. The document is organized into the following sections, outlining ODOT compliance actions under the permit:

- Section 2 New and Re-Development
- Section 3 Flood Control Projects and Structural Controls
- Section 4 Construction Site Runoff
- Section 5 Industrial High Risk Runoff
- Section 6 Household Hazardous Waste / Used Motor Vehicle Fluids
- Section 7 Public Outreach
- Section 8 Roadway Operation and Maintenance
- Section 9 Pesticide, Herbicide, and Fertilizer Application
- Section 10 Pollution Compliant and Spills Response Program
- Section 11 Floatables
- Section 12 Wet Weather Analytical
- Section 13 Watershed Characterization
- Section 14 Illicit Discharge Detection and Elimination Program
- Section 15 Supporting Permit Conditions, Monitoring Programs, and Documents

2. New and Re-Development

Required ODOT compliance activities are summarized in Part III.A. of the permit, as noted below:

Activity c: Revise ordinances and update SWMP with criteria and procedures.

ODOT does not have legal authority to pass ordinances or to regulate land development activities by others.

ODOT will consider the use of stormwater quality BMP's in new highway construction on a case by case basis. ODOT will also consider the use of stormwater quality BMP's in major redevelopment or highway expansion projects on a case by case basis.

Activity d: Update SWMP to include criteria and procedures.

ODOT will consider the use of stormwater quality BMP's in new highway construction on a case by case basis. ODOT will also consider the use of stormwater quality BMP's in major redevelopment or highway expansion projects on a case by case basis.

Activity e: Update Construction BMP Manual.

ODOT will review construction runoff control procedures and performance and update manual as necessary.

3. Flood Control Projects and Structural Controls

Required ODOT compliance activities are summarized in Part III.A. of the permit, as noted below:

Activity c: Continue drainage maintenance program related to repair of drainage structures and creek channel crossings.

ODOT will maintain ODOT drainage facilities in accord with standard operating procedures.

4. Construction Site Runoff

Required ODOT compliance activities are summarized in Part III.A. of the permit, as noted below:

Activity a: Continue program using permitting, inspections, and investigations

Because ODOT does not have the legal authority to regulate construction activities, ODOT will not "permit" construction activities, however, ODOT will require adherence to Special Provision 220. ODOT will require contractors to obtain coverage under OKR10 and municipal permits, as required. ODOT will conduct construction site inspections and investigations..

Activity b: Regulate runoff from construction sites including enforcement provisions

Because ODOT does not have the legal authority to regulate construction activities or impose enforcement provisions, Oklahoma City conducts this activity within their jurisdiction. ODOT does not allow third parties to construct facilities on our rights of way.

Activity c: Conduct public outreach and annual workshops

ODOT will collaborate with the Oklahoma Association of General Contractors to conduct one contractor workshop during the permit year..

5. Industrial High Risk Runoff

This permit requirement is not applicable to ODOT. It has been assigned to the City of Oklahoma City.

6. Household Hazardous Waste / Used Motor Vehicle Fluids

Required ODOT compliance activities are summarized in Part III.A. of the permit, as noted below:

Activity a: Provide summary of evaluation and assessment of results from collection / recycling / safe disposal events.

ODOT will collect and recycle used oil and automotive fluids generated at our service centers and maintenance yards in Oklahoma City.

Activity d: Continue the household hazardous waste collection program via MOU's with surrounding Phase II cities.

ODOT has not entered into any MOU's.

7. Public Outreach

Required ODOT compliance activities are summarized in Part III.A. of the permit, as noted below:

Activity a: Continue public outreach program

ODOT will continue our litter hot-line (1-888-5-LITTER), to report someone littering anywhere across the state.

School-age children will continue to be invited annually to enter a stormwater quality poster contest, sponsored by ODOT, Oklahoma Department of Environmental Quality, Oklahoma Department of Education; Keep Oklahoma Beautiful, a non profit organization; and the Cherokee Nation.

ODOT will continue to coordinate the work of over 1,000 Adopt-a-Highway groups (46 in Oklahoma City) who remove litter from their two-mile section of state highways at an interval of four times a year.

ODOT will continue to conduct the "TRASH-OFF", an annual volunteer spring roadside cleaning event.

8. Roadway Operation and Maintenance

Required ODOT compliance activities are summarized in Part III.A. of the permit, as noted below:

Activity a: Continue program through panning crews, curb inlet cleaning, and street sweeping.

ODOT will operate and maintain roadway facilities in accord with existing standard operating procedures. Right of way mowing will be conducted six times per year in the Oklahoma City area.

Activity b: Update SWMP to include any roadway operation and maintenance changes.

ODOT will update SWMP if any changes occur.

Activity c: Provide annual summary of activities.

ODOT will provide annual summary.

Landscape

ODOT will continue to operate the Highway Tree Grant Program, which uses ODOT Transportation Enhancement funds to plant landscaping trees throughout the state.

Wildflowers

ODOT will continue to conduct wildflower planting. Drill seeders, specifically designed for wildflower seed, are used by ODOT for planting on highway roadsides. These drills are available for use for Oklahoma communities and organizations.

9. Pesticide, Herbicide, and Fertilizer Application

Required ODOT compliance activities are summarized in Part III.A. of the permit, as noted below:

Activity a: Continue annual training / education / certification classes on management techniques.

ODOT will continue to conduct training, education, and certification regarding management techniques. ODOT staff will be instructed to apply these chemicals in accord with their manufacturer's instructions.

10. Pollution Compliant and Spills Response Program

Required ODOT compliance activities are summarized in Part III.A. of the permit, as noted below:

Activity a: Respond to citizen pollution complaints.

ODOT will continue to record and respond to citizen pollution complaints.

Activity b: Respond as technical support for HMU on hazardous material incidents.

This permit requirement is not applicable to ODOT. It has been assigned to the City of Oklahoma City.

Activity c: Provide summary of pollution complaints and spill responses annually.

ODOT will summarize complaints and spill response activities annually.

11. Floatables

This permit requirement is not applicable to ODOT. It has been assigned to the City of Oklahoma City.

12. Wet Weather Analytical

This permit requirement is not applicable to ODOT. It has been assigned to the City of Oklahoma City.

13. Watershed Characterization

This permit requirement is not applicable to ODOT. It has been assigned to the City of Oklahoma City.

14. Illicit Discharge Detection and Elimination Program

This permit requirement is not applicable to ODOT. It has been assigned to the City of Oklahoma City.

15. Supporting Permit Conditions, Monitoring Programs, and Documents

Required ODOT compliance activities are summarized in Part III.A. of the permit, as noted below:

Activity a: Submit inter-jurisdictional agreements.

ODOT has previously submitted our agreement with the City.

Appendix B: Oklahoma Turnpike Authority SWMP for the OKC Jurisdiction March 15, 2013 – March 14, 2018 and the Revised Management Plan for March 13, 2013 - March 14, 2018.

OKLAHOMA TURNPIKE AUTHORITY

STORM WATER MANAGEMENT PROGRAM (SWMP)

Permit Number OKS000101

March 15, 2013 – March 14, 2018

BACKGROUND

In compliance with the Oklahoma Pollutant Discharge Elimination System Act (OPDES Act), and the rules of the State of Oklahoma Department of Environmental Quality (DEQ); Federal Clean Water Act; and NPDES Regulations, the Oklahoma Turnpike Authority (OTA), with the City of Oklahoma City, and the Oklahoma Department of Transportation (ODOT) became co- permittees and are allowed to discharge stormwater from the Municipal Separate Storm Sewer (MS4) System under Permit Number OKS000101.

The Oklahoma Turnpike Authority has prepared this Stormwater Management Program (SWMP) to comply with the permit requirements and address storm water pollution related to highway planning, design, construction, and maintenance activities throughout the Oklahoma Turnpikes. OTA administers the implementation and ensures enforcement to mitigate pollution in storm water runoff from the Turnpike facilities, roadways and right-of- ways.

This SWMP shall cover the term of the permit and shall be updated as necessary, or as required, to ensure compliance with statutory requirements of the Clean Water Act, and with the annual reporting requirements of the permit. OTA is required to report the status of the SWMP including any modifications, and the plans for implementing those modifications.

Coverage for this permit will be for the Turner and Kilpatrick turnpikes, but components of this SWMP are implemented on all the Turnpikes.

Permit Enforcement and Oversight

The City will be the primary lead in construction site inspections, local record keeping, and oversight of Phase I compliance. OTA will rely on the City for assistance in enforcement on noncompliant parties involved with OTA construction parties.

In addition, OTA plans to work closely with the City when off-site storm water enforcement is necessary since OTA does not have the legal authority of enforcement within the Oklahoma City municipal area. Particularly in events that OTA personnel positively identifies a unauthorized non-storm water discharging source with a potential to cause pollution, the City will be contacted to investigate.

OTA STORMWATER MANAGEMENT PROGRAM

While, majority of the requirements are undertaken by the City as the lead entity under the agreement between the City and OTA, the following summarizes the OTA's stormwater management program, outlined according to the permit. As a requirement, an annual reporting of the status and proposed changes to the program will be submitted to the ODEQ in accordance with the frequency requirements of the permit. This program takes into account the components to which major activities of the OTA are generally focused.

I. Structural Controls and Storm Water Collection System Operations.

Culverts, roadside ditches and water detention structures serve as backbone of a stormwater conveyance system. As such, assuring that flow is not impeded because of clogging by accumulated sediments or debris is crucial to its effective operation. Maintenance activities are performed continuously throughout the year. It includes activities such as storm sewer and culverts inspection, cleaning and repairs, open ditch cleaning, and vegetation controls. As part of the vegetation control, regular mowing and proper disposal of mowing debris is practiced, with the objective of avoiding accumulation and obstructing flow of water. Roadside ditches are also cleared of deposits that could impede water flow or could end up in the creeks or lakes.
For development projects with disturbance area of over an acre, a Stormwater Management Plan is a requirement. This is in conjunction with to the requirements
of the following OTA 2010 Standard Specifications:

- Section 107.2 – Storm Water Management
- Section 220 – Management of Erosion, Sedimentation and Storm water pollution prevention and Control
- Section 221 – Temporary Sediment Control

In the Storm Water Management Plan for projects, structural practices which are applicable are marked as recommended for use in the project. Examples of structural practices are among others are:

- stabilized construction exits
- temporary silt fences and dikes
- diversion, interceptor or perimeter dikes
- rock filter dams
- paved ditch with ditch liner protection
- temporary sediment basins and filters
- rip-rap
- sandbag berms
- inlet sediment filters.

The effectiveness of controls is a function of variables related to site conditions, highway design, and other stormwater considerations. OTA adopts the most site appropriate measure that conforms to the objectives of minimizing storm water pollution from point and non-point sources.
OTA also has an inventory of all existing culverts along the turnpike systems for reference mapping, and to aid in the outfall determination. The culverts and other
structures are inspected annually and whenever there are instances such as floodings, that necessitate a structure check-up.

II. Areas of New Development and Significant Redevelopment:

OTA's program of development is guided by its 5-year Capital Plan. The Capital Plan enumerates projects throughout the whole Oklahoma turnpike system per year, and is also updated annually. In its development and re-development projects, OTA tries to minimize vegetation disturbance, changes in on-site natural features such as slopes and filtration areas which can greatly alter the peak flows and affect downstream receiving body. The use of Low Impact Development (LID) will also be considered if feasible for turnpike projects.

All construction plans for development projects of the OTA are reviewed and required to include a Stormwater Management Plan. Included in this plan are: descriptions of the project site, erosion and sediment controls enumerating soil stabilization practices, structural practices as well as contractor's responsibility. The contractor is likewise required to submit a Storm Water Pollution Prevention Plan (SWPPP) to obtain a permit, in compliance with ODEQ General Permit (OKR10), which authorizes discharges of stormwater associated with construction activities. The SWPPP shall be prepared in accordance with good engineering practices and shall describe and ensure the implementation of practices that will be used to reduce the pollutants in storm water discharges associated with construction activities at the site and assurance with the terms and conditions of the permit.

OTA shall also incorporate emerging technology for potential inclusion into the contractors SWPPP as well as the Construction BMP Manual. The selection of technology shall be based on feasibility criteria relative to highway design and results shall be reported annually.

III. Roadways:

OTA has a street sweeping program which involves routine sweeping and clean-up after deicing. The John Kilpatrick and Turner Turnpikes are swept twice a year to ensure that the lane miles are operating in a manner that will minimize discharge pollutants from the roadway. During such operation, shoulders are swept to remove accumulated sediment, salt and other debris.

In addition, trash containers are properly maintained for the collection and disposal of trash on turnpikes.

Construction sites are required to be swept and maintained regularly, as part of good housekeeping, and thus avoiding dust, rocks and other construction debris from getting into the roadways, which are not only hazardous, could also be an impediment to stormwater flow by blocking or clogging the drains. It could also be intermixed with sheet flow and end up in the receiving body of water thus causing pollution.

IV. Pesticide, Herbicide, and Fertilizer Application:

OTA requires all turnpike herbicide applicators together with contract applicators to be licensed and subject to all of the regulations under the Oklahoma Herbicide Applicators Law including the re-certification. Applicators receive yearly training on pesticides, herbicides, and fertilizer chemicals from the Oklahoma Vegetation Management Association.

V. Illicit Discharges and Improper Disposal:

As part of good housekeeping, a program on the discharge or disposal of used motor vehicle fluids, grass clippings, leaf litter and animal wastes within the turnpike limits is observed by the Maintenance personnel. Contents of trash and litter bins are disposed of properly; used oil is collected and recycled by a private contractor who routinely picks up the spent oil. Batteries and non-bio degradable wastes such as tires are returned to stores where they were purchased.

OTA will continue its litter collection program with the addition of a recycling program if feasible. The on-going program will be reviewed and a documentation of the frequency as well as recording of the quantities of litter collected, separated and recycled will be studied. As an added measure, lids on trash receptacles should be always secure to avoid trash from becoming litter and be a source of floatables.

VI. Construction Site Runoff

Construction is one of the major undertakings of the turnpike as far as storm water is concerned. As mentioned under areas of re-development and new development, OTA requires that the contractor comply with General Permit (OKR10) for Storm Water Discharges from Construction Activities within the State of Oklahoma. This entails obtaining an authorization from the DEQ to enable to discharge pollutants in storm water runoff associated with construction activities. OTA strictly adheres to not issuing a Work Order without the authorization from the DEQ. Part of the permitting process is the preparation of a Storm Water Pollution Prevention Plan (SWPPP) covering the discharges and prepared in accordance with good engineering practices. Identified in the SWPPP document are the potential sources of pollution that may

reasonably be expected to affect the quality of stormwater discharges from the construction site. The SWPPP shall describe and ensure the implementation of practices that will be used to reduce the pollutants in stormwater.

OTA realizes that construction activities contribute to soil erosion and can result in sediment and pollutant transport to local waterways by stormwater runoff. Sediment transport from soil erosion can be effectively controlled or reduced by the use of several preventive measures, BMP's (Best Management Practices). OTA tries to implement the following BMP's as preventive processes, among others :

- Scheduling – Schedule construction phases around the weather to better manage erosion and sediment control. The project schedules usually sequence construction activities with the installation of erosion and sediment control measures. The purpose is to reduce the amount and duration of soil exposed to erosion by wind, rain and vehicle tracking. Planning incorporates the use of schedule or flow chart to layout the construction plans. Work out the sequencing and timetable for starting and completion of each activity such as clearing, grading and excavation, pouring foundations, installing utilities, etc. Within the turnpike rights-of-way, OTA maintains site stabilization year- round, and keeps wet season sediment trapping devices in an operational condition. Whenever possible, OTA schedules work to minimize the extent of site disturbance at any one time. Routinely verify that the work is progressing in accordance with the project schedule. And if progress deviates, corrective actions are taken.

- Erosion Control – Soil stabilization is a key component in the control of erosion. By stabilizing disturbed soil areas with covers or binders, the exposed soils are less likely to erode from the effects of wind or rain. OTA tries to design projects to maintain areas of existing vegetation to reduce the amount of sediment in sheet flow runoff by maximizing existing site vegetation and minimizing the extent of the disturbed area. Fencing is likewise observed. Contractors are also required to control and properly dispose of construction spoils such as discarded building materials, concrete truck washouts, sanitary wastes and litter, especially if construction of project requires resources to be located within the limits of the floodplains. They are required to remove resources from the floodplains at the end of each workday.

- Site Plan Review procedures – OTA recognizes the importance of proper site planning to incorporate consideration of potential water quality impacts. Areas which shall be disturbed and affected by the development should be taken into account; therefore a site assessment should be included as part and parcel of the bid award process and findings of which be included in the SWPPP.

- Accountability procedures – OTA's plan to ensure compliance with its erosion and sediment control mechanism includes sanctions and enforcement mechanisms. Possible sanctions include stop work orders, fines, bonding requirements, and permit denials.

- Water or environmentally safe soil stabilizer – is required to be sprayed on all exposed earth surfaces during clearing, grading, earth moving and other site preparation. Dry disturbed areas and dry stockpiles of soil is watered throughout the day to minimize dust. Trucks transporting dry soil are required to be covered by tarpaulins. Care should be taken when applying water and stabilizer to prevent washing sediment off-site or storm drains or natural waterways. Grading activities need to be restricted when winds exceed 15 miles per hour or as deemed necessary by the Construction Inspector.

As such, OTA will draft and establish a Construction Stormwater Quality BMP Guidance booklet to recommend practices relating to construction activities for stormwater runoff. This document shall outline procedures for quality assurance/quality control which should be observed in construction sites. Best Management Practices relevant to turnpike development projects, as well as post-construction information will be taken into account in this booklet.

VII. Public Education

The permit requires a program that has been successful in the past, to be revised, updated and shall provide a description of the how the information would be disseminated to individuals on awareness about storm water.

OTA shall continue to focus on increasing general awareness to their employees, Turnpike Contractors and the general public of the links between land use practice
and storm water pollution. Information regarding stormwater runoff, adverse effects of polluted stormwater runoff will be continuously updated and supplemented. The
following activities constitute the OTAs public education campaign:

- A stormwater brochure will be circulated on the pikepass website (www.pikepass.com) to provide information on effects of polluted stormwater run-off and what each individual can do to minimize if not avoid the adverse effects of pollution to bodies of water. The brochure shall be updated at least once a year to supplement familiarity about wastewater. This material shall also contain updates on OTA projects in relation to stormwater, its best management practices and success in implementation.

- The bookmark which was created containing "10 things you can do to prevent storm water runoff pollution" is still distributed to visitors of the OTA headquarters. This period, OTA intends to come up with a different design and include more information about stormwater. This proposed bookmark shall also be distributed to all turnpike employees, as well as to patrons, contractors and visitors of the turnpike workplaces.

- OTA has allocated a spot on the pikepass website to contain information about stormwater management. Said Information shall be updated to contain recent information regarding OTA's efforts on stormwater management; as well pikepass contact information on reporting pollution and littering on the turnpike systems.

VIII. Employee Education

OTA Engineering Staff attends conferences, training and seminars initiated by the ODEQ as part of its involvement in storm water awareness. Annually, DEQ sponsors the storm water conference, a 2-day event which presents highlights in storm water activities, emerging technology, EPA guidelines and updates and other useful information.

Further, OTA Maintenance has regular training activities relative to good housekeeping, included but not limited to:

- mowing procedures – height protocol to maintain

- herbicide spraying – frequency and location of application
- maintenance of equipment – procedure in handling spent oil, discarded parts (batteries and tires recycling), vehicle wash area drainage and discharge
- Highway and bridge cleaning and sweeping – protocols and procedures in maintaining debris-free roadways and bridges, and proper disposal of debris and/or appurtenance replaced or repaired.
- De-icing programs, salt storage procedures – handling, storage and post event cleanup.
- A pro-active approach will be taken on drains and inlets. It is proposed that there be a check-up on drain inlet barriers and its surrounding areas, before and after storms, at 24-hour intervals during extended storms, and weekly during the rainy season. This is to ensure that no impediments to the flow are present, and no pollutants will be washed with the storm water.

OTA however, relies on emergency response personnel from the City to handle spill events and/or accidents that occur within the turnpikes.

IX. Public Participation and Involvement

OTA intends to strengthen its information campaign targeting employees, on-site contractors and individuals using OTA facilities about the steps they can take to reduce storm water pollution and how to become involved in storm water management programs. In general, target pollutant sources along the Turnpike include sediments from erosion as a result of slope changes and development, improperly controlled construction sites, and litter.
Steps which will be taken to involve the public include:

- Print media – including newsletters and brochures
- Website postings – efforts taken by OTA on storm water programs.
- Litter hotline – OTA has a number to be contacted to report pollution and littering within the turnpike systems.

Once the OTA SWMP is accepted and approved, the document will be posted on the website and would be made available for the public to obtain copies.

Appendix C: OKC Pesticide General Permit Notice of Intent and Permit Authorization No. OKG87A006

AEM5098
Rev. 7/2020

Rev. # 464 Rec. # _____
Amount Received $_____

Oklahoma Department of Agriculture, Food, and Forestry

Notice of Intent (NOI) of Coverage Under the Pesticide General Permit (PGP) for Discharges from the Application of Pesticides

Submission of this completed Notice of Intent (NOI) constitutes notice that the Operator identified in Section B intends to be authorized to discharge pollutants to Waters of the U.S. within the pest management area identified in Section C under EPA's Pesticide General Permit. Submission of this NOI constitutes notice that the party identified in Section B of this form has read, understands, and meets the eligibility conditions of Part 1 of the permit; agrees to comply with all applicable terms and conditions of the permit; and understands that continued authorization under the permit is contingent on maintaining eligibility for coverage. To be granted coverage, all information required on this form must be completed. Please read and make sure you comply with all permit requirements.

Electronic Submission Waiver (skip if submitting through ODAFF's eNOI system)

☐ I hereby acknowledge my waiver request from the use of ODAFF's electronic Notice of Intent system (eNOI) because my use of eNOI will incur undue burden or expense over my use of this paper NOI form, or if eNOI is otherwise unavailable.

Briefly describe the reason why use of the electronic system causes undue burden or expense.

_____

_____

A. Notice of Intent Status

1. Mark whether this is the first time you are requesting coverage under the Pesticide General Permit or if this is a change of information for a discharge already covered under the Pesticide General Permit. If this is a change of information, supply the AgPDES permit tracking number for the discharge.

☐ Original NOI Submission

☑ NOI Change of Information: OKG87A006 (AgPDES Permit Number)

Please note: When selecting A.1.b please fill out Section B (Operator Name and Mailing Address) and the fields of the NOI that need to be modified.

B. Operator Information

1. Operator Name: City of Oklahoma City
2. IRS Employer Identification Number (EIN): 731334810
3. Operator Type (check one):

☐ Federal government ☐ State government

☑ Local government ☐ Mosquito control district (or similar)

☐ Irrigation control district (or similar) ☐ Weed control district (or similar)

☐ Other: If other, provide brief description of type of operator _____

4. Mailing Address:

Street: 420 W. Main St., 7th Floor City: Oklahoma City State: OK ZIP Code: 73102

Telephone: (405) 297-2581 Ext_____ Fax: (405) 297-2117

Contact Name: Eric J. Wenger E-mail: eric.wenger@okc.gov

AEM5098
Rev. 7/2020

Rev. # 464 Rec. # _____
Amount Received $_____

C. Pest Management Areas: Complete Section C for each Pest Management Area for which coverage under the AgPDES Pesticide General Permit is desired. Copy this section for non-electronic submissions.

Pest Management Area # 1 of ## 1

1. Pest Management Area Name: Corporate boundaries of Oklahoma City

Provide a map of the location of the Pest Management Area (attached map) or describe the location of the Pest Management Area in detail below.

Within corporate boundaries of Oklahoma City. Corporate boundaries exclude adjacent communities and communities partly or wholly surrounded by Oklahoma City (see attached map).

2. Are any of your activities for which you are requesting coverage under this NOI occurring on Indian Country Lands?If yes, identify the reservation or otherwise describe those areas: ☐ Yes ☑ No

3. Mailing address and contact information of pesticide applicator (or check here ☑ if same as provided in Section B):

Street: 420 W. Main St. City: Oklahoma City State: OK ZIP Code: 73102

Telephone: (405) 297-2581 Ext _____ Fax: (405) 297-2117

Contact Name: Eric J. Wenger E-mail: eric.wenger@okc.gov

4. Pesticide Use Patterns to be included in this Pest Management Area (check all that apply):

☐ Mosquito and Other Flying Insect Pest Control
☐ Animal Pest Control
☐ Forest Canopy Pest Control
☑ Weed and Algae Pest Control

5. Receiving Waters (check one):

☑ Coverage requested for all Waters of the U.S. within the Pest Management Area identified above.

☐ Coverage requested specifically for the following Waters of the U.S. within the Pest Management Area identified above.

☐ Coverage requested for all Waters of the U.S. within the Pest Management Area identified above except for:

6. Water Quality Impaired Waters

Operators are not eligible for coverage under this permit for any discharges from a pesticide application to Waters of the U.S. if the waters are identified as impaired by a substance which is either an active ingredient of the pesticide designated for use or is a degradate of such an active ingredient. See Part I.A.2 of the permit. Check one:

☑ Waters are NOT impaired by any substance which is either an active ingredient of a pesticide to be discharged or a degradate of such an active ingredient.

☐ Waters are on a current state list as being impaired by a substance which is either an active ingredient of a pesticide to be discharged or a degradate of such an active ingredient; however, evidence is attached documenting that the waters are no longer impaired.

AEM5098
Rev. 7/2020

Rev. # 464 Rec. # _____
Amount Received $_____

D. 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. On the basis of 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.

Printed Name: Eric J. Wenger Title: Public Works Director / City Engineer

E-mail: eric.wenger@okc.gov Phone: (405) 297-2581

Signature/Responsible Official: Eric J. Wenger Date: 7/11/2023

NOI Preparer (Complete if NOI was prepared by someone other than the certifier)

Preparer Name: Derek Johnson Organization: City of OKC

E-mail: derek.johnson@okc.gov Phone: (405) 297-1517

Signature: Derek Johnson Date: 7/11/2023

State of Oklahoma
Department of Agriculture, Food, and Forestry

J. Kevin Stitt
Governor

Blayne Arthur
Secretary of Agriculture

July 14, 2023

Attn: Eric J. Wenger
City of Oklahoma City
420 W. Main Street, 7th Floor
Oklahoma City, OK 73102

Re: Coverage under the Pesticide General Permit (PGP), Permit Authorization No. OKG87A006
City of Oklahoma City-Public Works Dept.

The Oklahoma Department of Agriculture, Food, and Forestry (ODAFF) received your Notice of Intent (NOI) for coverage under the Pesticide General Permit for Discharges from the Application of Pesticides (PGP) on July 11, 2023. The NOI has been reviewed and determined complete. This letter authorizes discharges from the application of pesticides within the corporate boundaries of the City of Oklahoma City for Weed and Algae Pest Control and for all Waters of the U.S., within the corporate boundaries of the City of Oklahoma City, as identified in the submitted NOI in compliance with the permit terms and conditions.

The effective date of your permit authorization is July 14, 2023, and the permit authorization number is OKG87A006. The expiration date of the Authorization is March 25, 2028, with an $800 annual fee due by June 1st of each year. To minimize pesticide discharges, proper pest management practices must be implemented and monitored for effectiveness. You are required to document and report adverse incidents in accordance with Parts I.C and II.A of the PGP and comply with other requirements in the PGP, as applicable. An electronic copy of the PGP can be viewed and downloaded at:

https://ag.ok.gov/divisions/agricultural-environmental-management/

To terminate coverage under the PGP, please submit a Notice of Termination (NOT) to eliminate responsibility to comply with the permit if: 1) the Operator is no longer responsible for any discharges from the application of pesticides for which permit coverage was obtained; or 2) a new Operator has taken over decision-making responsibility for the pest control activities covered under an existing NOI. The NOT will certify that discharges of pesticides to waters of the U.S. are no longer authorized. The blank NOT form is available on the ODAFF website at the above referenced link.

If you have any questions regarding the Pesticide General Permit or regarding submitting an NOT once the discharges from the application of pesticides are completed, please contact the AgPDES Team at (405) 522-5493 or AEMS.AgPDES@ag.ok.gov.

Sincerely,

James W. Rucker
AgPDES Director

Appendix D: 2022 Water Body Identification Numbers in OKC

WBID	Name	Category	AES	AG	EWS	CWAC	HLAC	Trout	WWAC	Fish Con	HQW	NAV	ORW	PBCR	PPWS	SBCR	SWS
OK520510000255_00	Wes Watkins Reservoir	5a	F	F	-	-	-	-	N	F	-	-	-	F	F	-	-
OK520510000290_00	Deer Creek, South	5a	N	I	-	-	-	-	N	X	-	-	-	I	N	-	SWS
OK520510000310_00	Deer Creek, North	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	-
OK520520000010_10	NCR02	4a	X	X	F	-	-	-	I	X	-	-	-	N	-	-	-
OK520520000010_20	Canadian River, North	5a	I	N	F	-	-	-	N	N	-	-	-	F	-	-	-
OK520520000010_30	Canadian River, North	5a	X	X	F	-	-	-	N	X	-	-	-	N	-	-	-
OK520520000010_40	Canadian River, North	5a	X	X	F	-	-	-	N	X	-	-	-	N	-	-	-
OK520520000010_50	Canadian River, North	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	-
OK520520000030_00	Choctaw Creek	5a	I	I	F	-	N	-	-	X	-	-	-	-	-	I	-
OK520520000035_00	Choctaw Creek, Unnamed Tributary of	3	X	X	-	-	X	-	-	-	-	-	-	X	-	-	-
OK520520000040_00	Jones Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520520000050_00	Silver Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520520000060_00	Crutcho Creek	5a	I	I	-	-	-	-	N	X	-	-	-	I	-	-	-
OK520520000070_10	Crutcho Creek	5a	I	F	-	-	N	-	-	X	-	-	-	-	-	X	-
OK520520000080_00	Soldier Creek	3	X	X	-	-	-	-	I	X	-	-	-	X	-	-	-
OK520520000090_00	Crutcho Creek	5c	N	X	-	-	N	-	-	X	-	-	-	-	-	X	-
OK520520000110_00	Cherry Creek	5a	I	I	-	-	N	-	-	I	-	-	-	-	-	X	-
OK520520000140_00	Thompson Lake	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520520000150_00	Crooked Oak Creek	5a	N	N	-	-	-	-	N	X	-	-	-	N	N	-	-
OK520520000160_00	Lightning Creek	3	I	X	-	-	-	-	I	X	-	-	-	X	-	-	-
OK520520000170_00	Brock Creek	3	I	X	-	-	-	-	I	X	-	-	-	X	-	-	-
OK520520000190_00	Crutcho Creek, Unnamed Tributary of	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520520000210_00	Canadian River, North	5a	N	X	-	-	-	-	N	X	-	-	-	N	X	-	-
OK520520000230_00	Campbell Creek	5a	I	N	-	-	-	-	N	X	-	-	-	I	-	-	-
OK520520000240_00	Mustang Creek	5a	I	I	-	-	-	-	N	X	-	-	-	N	-	-	-
OK520520000250_00	Canadian River, North	5b	F	N	-	-	-	-	I	I	-	-	-	F	I	-	-
OK520520000260_00	Overholser Lake	5a	I	N	-	-	-	-	N	F	-	-	-	F	F	-	-
OK520520000270_00	Ramsey Lake	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520520000280_00	Bluff Creek Canal (Hefner L)	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-

OK520520000290_00	Soldier Creek, Unnamed Trib of	3	X	X	-	-	-	-	X	X	-	-	-	-	-	X	-
OK520520000300_00	West Ramp Branch!	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520520000310_00	3001 Branch!	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520520000320_00	Taxiway Branch!	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520520000330_00	Kuhlman Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520520000350_00	Airport Heights Creek!	3	I	X	-	-	-	-	I	X	-	-	-	I	-	-	-
OK520530000010_00	Canadian River, North	5a	X	F	-	-	-	-	F	X	-	-	-	N	X	-	-
OK520530000020_00	Wilshire Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520530000025_00	Canadian River, Unnamed Trib of	3	X	X	-	-	-	-	I	X	-	-	-	X	X	-	-
OK520530000030_00	Shell Creek	5a	F	F	-	-	-	-	N	X	-	-	-	N	F	-	-
OK520530000270_00	Perimeter Creek!	3	I	I	-	-	-	-	I	X	-	-	-	X	-	-	-
OK520530000280_00	Neighborhood Creek!	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520610010010_20	Canadian River	3	X	X	-	-	-	-	X	X	-	-	-	-	-	X	-
OK520610010220_00	Lost Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520610010230_00	Cow Creek	5a	I	I	-	-	-	-	N	I	-	-	-	X	I	-	-
OK520610020010_00	Canadian River	3	X	X	-	-	-	-	X	X	-	-	-	-	-	X	-
OK520610020020_00	Coal Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520610020050_00	Bennett Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	-
OK520610020060_00	Foreman Creek	5a	I	I	-	-	-	-	N	X	-	-	-	I	-	-	-
OK520610020070_00	Dry Creek	5a	I	I	-	-	-	-	N	X	-	-	-	I	I	-	-
OK520710010010_00	Canadian River, Deep Fork	5a	I	F	-	-	-	-	N	X	-	-	-	N	I	-	-
OK520710010020_00	Smith Creek	3	X	X	-	-	X	-	-	X	-	-	-	X	X	-	-
OK520710010030_00	Coon Creek	3	I	I	-	-	-	-	I	X	-	-	-	I	-	-	-
OK520710010040_00	Hiwassee Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK520710020010_00	Canadian River, Deep Fork	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020020_00	Arcadia Lake	5a	F	F	-	-	-	-	N	F	-	-	-	F	N	-	SWS
OK520710020040_00	Tinker Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020050_00	Wynn Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020060_00	Canadian River, Deep Fork	2	F	F	-	-	-	-	I	X	-	-	-	I	I	-	SWS
OK520710020070_00	Britton Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020075_00	Deep Fork, Unnamed Tributary of	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020080_00	Aluma Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020100_00	Forest Park Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS

OK520710020110_00	Northeast Creek	5c	X	X	-	-	-	-	N	X	-	-	-	X	X	-	SWS
OK520710020120_00	Northeast Lake (Zoo)	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020130_00	Springlake Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020140_00	Guy James Creek	5c	X	X	-	-	-	-	N	X	-	-	-	X	X	-	SWS
OK520710020150_00	Nichols Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020160_00	Belle Isle Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520710020170_00	Canadian River, Deep Fork, Unnamed Tributary of.	5c	X	X	-	-	-	-	N	X	-	-	-	X	-	-	-
OK520800020080_00	Pecan Creek	2	F	F	-	-	-	-	F	X	-	-	-	F	-	-	-
OK520810000030_00	Hog Creek	5a	F	F	-	-	-	-	N	X	-	-	-	F	I	-	SWS
OK520810000040_00	Hog Creek, West Branch	5a	I	I	-	-	-	-	N	X	-	-	-	I	X	-	SWS
OK520810000100_00	Elm Creek	5a	F	N	-	-	-	-	F	X	-	-	-	N	F	-	SWS
OK520810000110_00	Elm Creek, East	3	I	I	-	-	-	-	I	X	-	-	-	I	X	-	SWS
OK520810000130_00	Stanley Draper Lake	5a	F	F	-	-	-	-	N	N	-	-	-	F	F	-	-
OK520810000140_00	Elm Creek, West	5a	X	F	-	-	-	-	F	X	-	-	-	N	X	-	SWS
OK520810000150_00	Kitchen Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	X	-	SWS
OK520810000160_00	Kitchen Lake	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK620910040100_10	Chisolm Creek	2	I	X	-	-	-	-	F	X	-	-	-	X	I	-	-
OK620910040110_00	Edmond Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK620910040120_10	Deer Creek	2	X	X	-	-	-	-	F	X	-	-	-	X	X	-	-
OK620910040140_00	Bluff Creek	5a	I	X	-	-	-	-	F	X	-	-	-	N	I	-	-
OK620910040150_00	Dry Creek	2	X	X	-	-	-	-	F	X	-	-	-	I	-	-	-
OK620910040170_00	Spring Creek	3	X	X	-	-	-	-	I	X	-	-	-	X	-	-	-
OK620910040175_00	Hefner Canal	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK620910040180_00	Ski Island Lake	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK620910040190_00	Silver Lake	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK620910040200_00	Hefner Lake	5a	I	F	-	-	-	-	N	N	-	-	-	F	F	-	-
OK620910040210_00	Walnut Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK620910040230_00	Chapel Hill Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK620910040240_00	Piedmont Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK620910040250_00	Spring Creek	3	X	X	-	-	-	-	X	X	-	-	-	X	-	-	-
OK620910040260_00	Northwood Lake	3	I	X	-	-	-	-	I	X	-	-	-	X	-	-	-

X= Not Assessed, I=Insufficient Data, F=Fully Supporting, and N=Non-Supporting

Appendix E: Oklahoma City, 2022 303(d) Listed Water Waterways

WBID	Name	Ammonia	Arsenic	Barium	Benthic Macroinvertebrates	Cadmium	Chloride	Chl A	Chromium	Copper	DDT	Diazinon	Dieldrin	DO	Enterococci	E. coli	Fish Biology	Lead	Mercury	Nitrate	Oil & Grease	pH	Phosphorus	Sediment / Silt	Selenium	Silver	Sulfate	TDS	Toxaphene	Turbidity	Zinc
OK520510000255_00	Wes Watkins Reservoir	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5a	-
OK520510000290_00	Deer Creek, South	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	5c	-	-	-	-	-	-	-	-	-	-
OK520520000010_10	NCR02	-	-	-	-	-	-	-	-	-	-	-	-	-	4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520520000010_20	Canadian River, North	-	-	-	-	-	-	-	-	-	-	-	5a	5a	-	-	-	-	-	-	-	-	-	-	-	-	5b	-	-	-	-
OK520520000010_30	Canadian River, North	-	-	-	-	-	-	-	-	-	-	-	-	5a	4a	4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520520000010_40	Canadian River, North	-	-	-	-	-	-	-	-	-	-	-	-	5a	4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520520000030_00	Choctaw Creek	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520520000060_00	Crutcho Creek	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520520000070_10	Crutcho Creek	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520520000090_00	Crutcho Creek	-	-	-	5c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5c	-	-	-	-	-	-	-	-	-	-
OK520520000110_00	Cherry Creek	-	-	-	-	5a	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-
OK520520000150_00	Crooked Oak Creek	-	-	-	-	-	5b	-	-	-	-	-	-	5a	5a	4a	-	-	-	-	5c	-	-	-	-	-	-	-	-	-	-

OK520520000210_00	Canadian River, North	-	-	-	-	-	-	-	-	-	-	-	-	5a	4a	-	-	-	-	-	5c	-	-	-	-	-	-	-	-	-	-
OK520520000230_00	Campbell Creek	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	5b	-	-	-	-
OK520520000240_00	Mustang Creek	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520520000250_00	Canadian River, North	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5b	-	-	-	-
OK520520000260_00	Overholser Lake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5b	-	-	5a	-
OK520530000010_00	Canadian River, North	-	-	-	-	-	-	-	-	-	-	-	-	-	5a	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520530000030_00	Shell Creek	-	-	-	-	-	-	-	-	-	-	-	-	5a	4a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520610010230_00	Cow Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-
OK520610020060_00	Foreman Creek	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520610020070_00	Dry Creek	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520710010010_00	Canadian River, Deep Fork	-	-	-	5c	-	-	-	-	-	-	-	-	-	5a	-	5c	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520710020020_00	Arcadia Lake	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5a	-
OK520710020110_00	Northeast Creek	-	-	-	5c	-	-	-	-	-	-	-	-	-	-	-	5c	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520710020140_00	Guy James Creek	-	-	-	5c	-	-	-	-	-	-	-	-	-	-	-	5c	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520710020170_00	Canadian River, Deep Fork, Unnamed Tributary of.	-	-	-	5c	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

OK520810000030_00	Hog Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5a	-
OK520810000040_00	Hog Creek, West Branch	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK520810000100_00	Elm Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	5b	-	-	-
OK520810000130_00	Stanley Draper Lake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5c	-	-	-	-	-	-	-	-	-	-	5a	-
OK520810000140_00	Elm Creek, West	-	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK620910040140_00	Bluff Creek	-	-	-	-	-	-	-	-	-	-	-	-	-	4a	5a	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK620910040200_00	Hefner Lake	-	-	-	-	-	-	-	-	-	-	-	-	5a	-	-	-	-	-	5c	-	-	-	-	-	-	-	-	-	-	-	-

Appendix F: TMDL Status in Oklahoma City (2014 Integrated Report Listing and ODEQ website)

Waterbody	*WBID*	*Category**	*Within OKC Limits*	*Impaired Beneficial Use(s)[1]*	*Cause of Impairment*	*Required / Probable Reductions*	*Segment TMDL*	*Downstream TMDL*	*TMDL Date[4]*	*Listing Comments*	*Load Reductions*	*Monitoring Required*	*Comments*	*Action*	*Recent Data*	*TMDL Type*
North Canadian River	OK 520510000110_20	4a	No	PBCR	Enterococci	**Enterococci**	38886		Completed	Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520). Outside of but downstream of OKC.	Instantaneous = 93.6%, Geo Mean = 86.4%	Unknown - Appendix E is missing from the April 6, 2010 TMDL on ODEQ website	Segment is east of OKC. However, contributing drainage does impact some areas inside OKC.	Schedule bacteria monitoring in the segment to determine current status.	Cannot find data in Appendix A of the ACOG TMDL. Unknown listing agency.	LDC
		5a	No	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD[2]	Pending		2024	2014 303d listing. Outside of but downstream of OKC.						
Wes Watkins Reservoir	OK 520510000255_00	a	Yes	WWAC	Turbidity	TSS	Pending		2024							
South Deer Creek	OK 520510000290_00	5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD[2]	Pending		2024	2014 303d listing		Needs scheduling	Station 580 represents northern drainage coming from OKC. Approx. 2,285.5 acres in OKC. Must calculate south drainage.	Monitoring is not currently scheduled. Need to develop QAPP	2002-2004 (Watershed Characterization Site 580 (NS))	
		5c	Yes	AES, WWAC, PPWS	Oil and Grease	Oil and Grease	Requires additional data		2024	2014 303d listing		Needs scheduling	Station 580 represents northern drainage coming from OKC. Approx. 2,285.5 acres in OKC. Must calculate south drainage.	Monitoring is not currently scheduled. Need to develop QAPP	2002-2004 (Watershed Characterization Site 580 (NS))	

Shawnee Twin Lake #2 (North)	OK 520510000300_00	5c	No	FC	Mercury	Mercury	Pending		2024	***2022 303d listing***		Needs scheduling	Station 580 represents northern drainage coming from OKC. Approx. 2,285.5 acres in OKC. Must calculate south drainage.	Measure percentage of watershed in OKC. Deer Creek South monitoring station should represent the majority of the watershed contributed by OKC. Must measure turbidity.	2002-2004 (Watershed Characterization Site 580 (FS - turbidity)).	
North Canadian River	OK 520520000010_00	4a	No	PBCR	Enterococci	**Enterococci**	38869		Completed	Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520).	Instantaneous = 96.6%, Geo Mean = 91.6%	Unknown - Appendix E is missing from the April 6, 2010 TMDL on ODEQ website	Segment is directly upstream of Lake Overholser. Some urban development but limited.	Schedule bacteria monitoring in the segment to determine current status.	OWRB 2001-2006 (ACOG used to develop TMDL)	LDC
		5a	No	WWAC	Turbidity	TSS	Pending		2024	2014 303d listing						
		5a	No	WWAC	Dissolved Oxygen		Pending		2024	2018 303d listing						
North Canadian River	OK 520520000010_10	4a	Yes	PBCR	Enterococci	**Enterococci**	38885		Completed	Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520).	Instantaneous = 99.3%, Geo Mean = 97.0%	Unknown - Appendix E is missing from the April 6, 2010 TMDL on ODEQ website	Segment is largely outside of OKC jurisdiction. Very limited urban drainage. OKC WWTP discharges to segment. Could impact bacteria permit loads in treatment facility.	No action	ACOG 2003 and 2006	LDC
North Canadian River	OK 520520000010_20	5a	Yes	WWAC	Dissolved Oxygen		Pending		2024	*2018 303d listing*						
		5a	Yes	FC	Dieldrin	Dieldrin	Pending		2024	2014 303d listing	Unknown	Needs scheduling	Monitoring should be accomplished to add recent and sufficient data for current assessment	Monitor before a TMDL is developed.		
		5b	Yes	AG	Sulfate		Awaiting standards review		2024	Probably see sight-specific criteria.						

North Canadian River	OK 520520000010_30	4a	Yes	PBCR	Enterococci	**Enterococci**	38883		Completed	Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520).	Ent: Instantaneous = 99.8%, Geo Mean = 98.0%	Unknown - Appendix E is missing from the April 6, 2010 TMDL on ODEQ website	Segment from Coltrane to Midwest Blvd. Some urbanization. Watershed includes Forest Park (limited)	No action	ACOG 2003 and 2006	LDC
		4a	Yes	PBCR	*E. coli*	***E. coli***	38883		Completed	Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520).	*E. coli*: Instantaneous = 95.6%, GEO = 37.6%	Unknown - Appendix E is missing from the April 6, 2010 TMDL on ODEQ website	Segment from Coltrane to Midwest Blvd. Some urbanization. Watershed includes Forest Park (limited)	No action	ACOG 2003 and 2006	LDC
		5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2024	2014 303d listing		Additional monitoring should be accomplished. River conditions have changed significantly since the ACOG monitoring.	Segment from Coltrane to Midwest Blvd. Some urbanization. Watershed includes Forest Park (limited) Additional monitoring should be accomplished. River conditions have changed significantly since the ACOG monitoring.	Develop monitoring plan for this segment.	ACOG 2003 and 2006	
North Canadian River	OK 520520000010_40	4a	Yes	PBCR	Enterococci	**Enterococci**	38882		Completed	Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520).	Instantaneous = 99.9%, Geo Mean = 98.1%	Unknown - Appendix E is missing from the April 6, 2010 TMDL on ODEQ website	Segment near Coltrane and NE 10th Street and ends near Portland and SW 15th Street. This encompasses most of the Oklahoma River. Sporadic monitoring has been conducted at several sites. Long term monitoring has	Analyze data to determine if standards are being met or improvements have been made.	ACOG 2003 and 2006. OKC (several stations periodically-revocable permits) and continuous data to current date.	LDC

											been conducted at the Byers Bridge.			
	5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2024	2014 303d listing		Oklahoma River Area. Significant urban storm water contributes to this segment of the North Canadian River. Original studies were completed greater than 5 years ago. Changes to the river (dams) may have impacted the DO concentrations.	Immediate monitoring needed to establish baseline levels of dissolved oxygen in the river.	ACOG 2003 and 2006	
Choctaw Creek OK 520520000030_00	5a	Yes	HLAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2024	2014 303d listing		No monitoring required	Watershed in OKC is ~177 acres. The complete watershed is 22,189.5 acres. OKC has 0.8% of the watershed.	Do not believe this TMDL will impact OKC. However, development guidelines should apply in this watershed. Not listed by OKC data.	Unknown	
Crutcho Creek OK 520520000060_00	5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2024	2014 303d listing			Crutcho Creek Watershed is 26,345.8 Acres, 11,880.3 Acres in OKC (45%).			
Crutcho Creek OK 520520000070_00	5a	No	PBCR	Enterococci	Enterococci	Pending		2024	2014 303d listing. Outside of but downstream of OKC.			Crutcho Creek Watershed is 26,345.8 Acres, 11,880.3 Acres in OKC (45%).			
	5a	No	PBCR	*E. coli*	*E. coli*	Pending		2024	2014 303d listing. Outside of but			Crutcho Creek Watershed is 26,345.8 Acres,			

								downstream of OKC.			11,880.3 Acres in OKC (45%).			
5a	No	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2024	2014 303d listing. Outside of but downstream of OKC.			Crutcho Creek Watershed is 26,345.8 Acres, 11,880.3 Acres in OKC (45%).			
Crutcho Creek OK 520520000070_10														
5a	Yes	HLAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2024							
Crutcho Creek OK 520520000090_00														
5c	Yes	AES, HLAC	Oil and Grease	Oil and Grease	Requires additional data		2024	2014 303d listing.			Crutcho Creek Watershed is 26,345.8 Acres, 11,880.3 Acres in OKC (45%).			
5c	Yes	HLAC	Macroinvertebrate Bio	Unknown	Requires additional data		2024	2022 303d listing						
Cherry Creek OK 520520000110_00														
5a	Yes	HLAC	Cadmium	Cadmium	Pending		2024	2014 303d listing			1,049.3 Acres is in OKC.	No action	OKC did not collect data for cadmium. Research must be conducted to determine listing agency.	
5a	Yes	HLAC	Selenium	Selenium	Pending		2024	2014 303d listing			1,049.3 Acres is in OKC.			
5a	Yes	HLAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2024	2014 303d listing			1,049.3 Acres is in OKC.			
Crooked Oak Creek OK 520520000150_00														
5b	Yes	AG	Chloride	Chloride	Awaiting standards review		2024	2014 303d listing, probably see new site-specific criteria.			5902.6 Acre watershed. 5,548.3 Acres in OKC (94%).			
5c	Yes	AES, WWAC, PPWS	Oil and Grease	Oil and Grease	Requires additional data		2024	2014 303d listing. Definitely has oil and grease problems.			5902.6 Acre watershed. 5,548.3 Acres in OKC (94%).			
5a	Yes	PBCR	Enterococci	Enterococci	Pending		2024	2014 303d listing			5902.6 Acre watershed.			

											5,548.3 Acres in OKC (94%).			
4a	Yes	PBCR	*E. coli*	***E. coli***	38875		Completed	Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520). Crooked Oak Creek specifically listed in TMDL.	Instantaneous = 75.7%, Geo Mean = 66.6%	Yes	Appendix E - Stormwater permitting and presumptive BMP approach.	Bacteria reduction plan, bacteria monitoring plan, annual reporting		LDC
5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	In development		2024	*Data requested by State, TMDL in development.*			5902.6 Acre watershed. 5,548.3 Acres in OKC (94%).			
North Canadian River	OK 520520000210_00													
4a	Yes	PBCR	Enterococci	**Enterococci**	38881		Completed	Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520).	Instantaneous = 99.7%, Geo Mean = 92.9%	Unknown - Appendix E is missing from the April 6, 2010 TMDL on ODEQ website	Segment crosses Council between I-40 and SW 15th Street. Additional sampling should be conducted. Two wastewater treatment plants have been worked on by ODEQ.	Schedule bacteria monitoring in the segment to determine current status.	ACOG 2003	LDC
5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2025-2027	2014 303d listing						
5c	Yes	AES, WWAC	Oil and Grease	Oil and Grease	Requires additional data		2025-2027	2014 303d listing.			Segment crosses Council between I-40 and SW 15th Street. Unknown listing agency. Should conduct monitoring to determine if Oil and Grease issue is still	OKC should immediately schedule a monitoring program to determine if Oil and Grease is still a problem at the location.	Unknown listing Agency (need to research this segment)	

												present at location.			
Campbell Creek	OK 520520000230_00	5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2025-2027	Priority Watershed sampling in 2016-2017.			Campbell Creek is a 4,984.4 acre watershed. 4,386.7 acres are in OKC (88%). Impacted communities: OKC and Mustang	Stations are being monitored 2016-2017. New data should provide additional information to determine the current status of stream segment.	OKC 2003-2005 (Watershed Characterization Project)	
		5b	Yes	AG	Sulfates	Sulfates	Awaiting standards review		2025-2027	2014 303d listing, probably see new site-specific criteria. Priority Watershed sampling in 2016-2017.			Campbell Creek is a 4,984.4 acre watershed. 4,386.7 acres are in OKC (88%). Impacted communities: OKC and Mustang	Stations are being monitored 2016-2017. New data should provide additional information to determine the current status of stream segment.	OKC 2003-2005 (Watershed Characterization Project)	
Mustang Creek	OK 520520000240_00	4a	Yes	PBCR	*E. coli*	***E. coli***	38874		Completed	Bacteria Total Maximum Daily Load (TMDL) for North Canadian River Area (OK520520).	Instantaneous = 88.8%, Geo Mean = 42.6%	Unknown - Appendix E is missing from the April 6, 2010 TMDL on ODEQ website	15,228.1 acres in OKC. Impacted communities: OKC, Mustang	Critically assess basin-wide data recently collected to develop funding for BMP implementation in impacted areas.	OKC 2003-2005 (Watershed Characterization Project Site 654). OKC 2012 -2013 (Priority Watershed Project Sites 654, 908, 914 and 926.)	LDC
		5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2025-2027	2014 303d listing			15,228.1 acres in OKC. Impacted communities: OKC, Mustang	Critically assess basin-wide data recently collected to develop funding for BMP implementation in impacted areas.	OKC 2003-2005 (Watershed Characterization Project Site 654). OKC 2012 -2013 (Priority Watershed Project Site 654 (FS), 908 (NS),	

														914 (NS) and 926 (FS)	
North Canadian River	OK 520520000250_00	5b	Yes	AG	Sulfates	***Sulfate***	Awaiting standards review		2025-2027	***2022 303d listing*** Probably see new site-specific criteria.					
Overholser Lake	OK 520520000260_00	a	Yes	WWAC	Turbidity	TSS	Pending		2025-2027	2014 303d listing			Undetermined	Need to communicate with Utilities Department	No data collected by SWQ	
		5b	Yes	AG	Sulfates	Sulfates	Awaiting standards review		2025-2027	2014 303d listing, probably see new site-specific criteria.			Undetermined	Need to communicate with Utilities Department	No data collected by SWQ	
North Canadian River	OK 520530000010_00	a	Yes	PBCR	Enterococci	Enterococci	Pending		2025-2027	2014 303d listing						
		5a	Yes	PBCR	*E. coli*	*E. coli*	Pending		2025-2027	2014 303d listing						
Shell Creek	OK 520530000030_00	4a	Yes	PBCR	Enterococci	**Enterococci**	33889		Completed	TMDL currently not listed as completed TMDL. *Need clarification from ODEQ.*	Unknown	No monitoring required	TMDL was developed by Parsons for the North Canadian River. Shell was violating fecal coliform criteria. This criteria has been removed from State WQ standards. The TMDL has been removed. 2014 303(d) has the segment as Cat 4a for Enterococcus and *E. coli*.	No MS4 requirements listed. No action	OKC 2003-2005 (Watershed Characterization Project Site 640) (NS). Priority Monitoring Project 2012-2013 (Sites 640 (NS), 932 (NS), 939 (NS), and 942 (NS))	LDC

		5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Draft		2025-2027	*Draft TMDL in review.*	TN = 56.3% TP = 67.5% OM Dry = 62% OM Wet = 64%	Yes	Pre-TMDL in review	Legal - Ag issue. Considering placement of long-term monitoring station if TMDL commences	OKC 2003-2005 (Watershed Characterization Project Site 640) (NS). Priority Monitoring Project 2012-2013 (Sites 640 (NS), 932 (NS), 939 (NS), and 942 (NS)); OKC/ODEQ TMDL support monitoring	LDC (and QUAL2K)
Cow Creek	OK 520610010230_00	5a	Yes	WWAC	Selenium	Selenium	Pending		2025-2027	2014 303d listing			Will impact the City Facilities (FAA/Airports)	Data currently not analyzed. Priority to work up and finish reports.	OKC 2002-2004 (Watershed Characterization Site 561 and 562 - did not monitor selenium). OKC 2015-2016 (Priority Based Monitoring - Sites 561 and 562 - selenium measured)	
Foreman Creek	OK 520610020060_00	5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2028-2030	2014 303d listing			Will impact OKC and Mustang. 3869.55 acre watershed. 3861.6 acres in OKC (99.8%). ~78% Agriculture	Must analyze all information to determine if segment pooled data is meeting State WQ standards. Upstream segment may be intermittent/ephemeral. If so, letter must be issued to State of Oklahoma.	OKC 2002-2004 (Watershed Characterization Site 28 (NS)). OKC 2012-2013 (Priority Based Monitoring - Sites 28 (FS) and 1179 (NS)	
Dry Creek	OK 520610020070_00	5a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2028-2030	2014 303d listing			Will impact OKC and Union City. 4298 acres in OKC. ~97% is agricultural based land use.	No action	OKC 2002-2004 (Watershed Characterization Project Site 555 (NS)). OKC 2012-2013 (Priority Based Monitoring	

														Site 555 (NS) and 1187 (NS).	
Deep Fork River	OK 520700050010_00	5c	No	WWAC	Fish Bioassessments	Unknown	Requires additional data		2025-2027						
Deep Fork River	OK 520710010010_00	5a	Yes	PBCR	Enterococci	Enterococci	Pending		2028-2030	2014 303d listing			Limited segment in OKC. Very rural conditions. Area extends into OKC from largely rural land use. Stopped potential TMDL area at Lake Arcadia.			
		5c	Yes	WWAC	Fish Bioassessments	Unknown	Requires additional data		2028-2030	2014 303d listing			Limited segment in OKC. Very rural conditions. Area extends into OKC from largely rural land use. Stopped potential TMDL area at Lake Arcadia.	Need to find listing agency		
		5c	Yes	WWAC	Macroinvertebrate Bio	Unknown	Requires additional data		2028-2030	2014 303d listing			Limited segment in OKC. Very rural conditions. Area extends into OKC from largely rural land use. Stopped potential TMDL area at Lake Arcadia.	Need to find listing agency		
Arcadia Lake	OK 520710020020_00	a	Yes	PPWS	Chlorophyll-a	Nutrients*	In development		2028-2030	*Data requested by State, TMDL*			This will impact OKC. Large watershed	Work with the State in the TMDL development process.	Unknown Listing Agency (probably	

								in development.			which drains a significant portion of the City (43,792.8 acres). OWRB conducting the monitoring.		OWRB BUMP Program)	
5a	Yes	WWAC	Turbidity	TSS	In development		2028-2030	*Data requested by State, TMDL in development.*			This will impact OKC. Large watershed which drains a significant portion of the City (43,792.8 acres). OWRB conducting the monitoring.	Work with the State in the TMDL development process.	Unknown Listing Agency (probably OWRB BUMP Program)	
Northeast Creek OK 520710020110_00															
c	Yes	WWAC	Macroinvertebrate Bio	Unknown	Requires additional data		2028-2030	*2020 303d listing*							
5c	Yes	WWAC	Fish Bioassessments	Unknown	Requires additional data		2028-2030	***2022 303d listing***							
Guy James Creek OK 520710020140_00															
c	Yes	WWAC	Macroinvertebrate Bio	Unknown	Requires additional data		2028-2030	2016 303d listing. Blue Thumb?							
5c	Yes	WWAC	Fish Bioassessments	Unknown	Requires additional data		2028-2030	2018 303d listing							
Unnamed Trib of Deep Fork River OK 520710020170_00															
c	Yes	WWAC	Macroinvertebrate Bio	Unknown	Requires additional data		2028-2030	***2022 303d listing***							
Thunderbird Lake OK 520810000020_00															
4a	No	PPWS	Chlorophyll-a	**Nutrients**	55040		Completed	Lake Thunderbird Report for Nutrient, Turbidity, and Dissolved Oxygen TMDLs	Annual WLAs for TN, TP, CBOD, TSS	Yes	Impacts OKC with WLA and required reductions.	Load Reductions, Monitoring, Reporting		EFDC, HSPF
4a	No	WWAC	Dissolved Oxygen	**None**	55040		Completed	Lake Thunderbird Report for Nutrient, Turbidity,						EFDC, HSPF

									and Dissolved Oxygen TMDLs. No actual reductions required for CBOD in TMDL.						
	4a	No	WWAC	Turbidity	**TSS**	55040		Completed	Lake Thunderbird Report for Nutrient, Turbidity, and Dissolved Oxygen TMDLs.	Annual WLAs for TN, TP, CBOD, TSS	Yes	Impacts OKC with WLA and required reductions.	Load Reductions, Monitoring, Reporting		EFDC, HSPF
	5c	No	FC	Mercury	**Mercury**	Requires additional data		2024	***2022 303d listing***						
Hog Creek	OK 520810000030_00														
	4a		PPWS	Chlorophyll-a	**Nutrients**		55040	Completed	Hog Creek discharges to Thunderbird Lake, which is subject to TMDL reductions.	Annual WLAs for TN, TP, CBOD, TSS	Yes	Probably covered by Lake T-Bird TMDL Appendix E	Ongoing Monitoring for Lake T-Bird TMDL	2002-2004 (Watershed Characterization Site 24), 2016 TMDL Monitoring	EFDC, HSPF
	4a		WWAC	Dissolved Oxygen	**None**		55040	Completed	Hog Creek discharges to Thunderbird Lake, which is subject to TMDL reductions. No actual reductions required for CBOD in TMDL.	Annual WLAs for TN, TP, CBOD, TSS	Yes	Probably covered by Lake T-Bird TMDL Appendix E	Ongoing Monitoring for Lake T-Bird TMDL	2002-2004 (Watershed Characterization Site 24), 2016 TMDL Monitoring	EFDC, HSPF
	4a		WWAC	Turbidity	**TSS**		55040	Completed	Hog Creek discharges to Thunderbird Lake, which is subject to TMDL reductions.	Annual WLAs for TN, TP, CBOD, TSS	Yes	Probably covered by Lake T-Bird TMDL Appendix E	Ongoing Monitoring for Lake T-Bird TMDL	2002-2004 (Watershed Characterization Site 24), 2016 TMDL Monitoring	EFDC, HSPF
	5a	Yes	WWAC	Turbidity	**TSS**	Pending		2024	***2022 303d listing***						
Hog Creek, West Branch	OK 520810000040_00														
	4a		PPWS	Chlorophyll-a	**Nutrients**		55040	Completed	Indirectly discharges to						EFDC, HSPF

								Thunderbird Lake, which is subject to TMDL reductions.						
4a		WWAC	Dissolved Oxygen	**None**		55040	Completed	Indirectly discharges to Thunderbird Lake, which is subject to TMDL reductions. No actual reductions required for CBOD in TMDL.						EFDC, HSPF
4a		WWAC	Turbidity	**TSS**		55040	Completed	Indirectly discharges to Thunderbird Lake, which is subject to TMDL reductions.						EFDC, HSPF
5a		WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2024	2014 303d listing						
Elm Creek OK 520810000100_00														
4a	Yes	PPWS	Chlorophyll-a	**Nutrients**		55040	Completed	Elm Creek discharges to Thunderbird Lake, which is subject to TMDL reductions.						EFDC, HSPF
4a	Yes	WWAC	Dissolved Oxygen	**None**		55040	Completed	Elm Creek discharges to Thunderbird Lake, which is subject to TMDL reductions. No actual reductions required for CBOD in TMDL.	Annual WLAs for TN, TP, CBOD, TSS	Yes	Probably covered by Lake T-Bird TMDL		2002-2004 (Watershed Characterization Site 573)	EFDC, HSPF
4a	Yes	WWAC	Turbidity	**TSS**		55040	Completed	Elm Creek discharges to Thunderbird Lake, which is subject to TMDL reductions.						EFDC, HSPF

	5a	Yes	PBCR	*E. coli*	*E. coli*	Draft		2024	*Draft TMDL in review.*	WQS with 10% MOS	Yes	Elm Creek segment receives direct influence from Elm Creek West which has a draft TMDL.	OKC is currently monitoring the segment for the Lake T-Brid TMDL (Station 570). Bacteria can be added to the schedule during the recreational season after the TMDL is approved by EPA.	2002-2004 (Watershed Characterization Site 570). Recent monitoring 2014-2015 did not sample for E. coli.	
	5b	Yes	AG	TDS	TDS	Awaiting standards review		2024	2014 303d listing			Appropriate listing.	TDS monitored during the Priority Monitoring Program. TDS data not supporting WQ Standards.	Unknown original listing agency. Priority Monitoring conducted 2014-2015 supports original listing.	
Elm Creek, East OK 520810000110_00	4a		PPWS	Chlorophyll-a	**Nutrients**		55040	Completed	Indirectly discharges to Thunderbird Lake, which is subject to TMDL reductions.						EFDC, HSPF
	4a		WWAC	Dissolved Oxygen	**None**		55040	Completed	Indirectly discharges to Thunderbird Lake, which is subject to TMDL reductions. No actual reductions required for CBOD in TMDL.						EFDC, HSPF
	4a		WWAC	Turbidity	**TSS**		55040	Completed	Indirectly discharges to Thunderbird Lake, which is subject to TMDL reductions.						EFDC, HSPF
Stanley Draper Lake OK 520810000130_00	5a	Yes	WWAC	Turbidity	TSS	Pending		2024	2014 303d listing			7,589.4 Acre watershed. Lake accounts for 2,561 Acres (33.8%). May be an internal issue with regard to source waters.	No action	Unknown	

	5c	Yes	FC	Mercury	Mercury	Requires additional data		2024	2014 303d listing.			Do not believe this will be a storm water issue.	No action	Unknown	
Elm Creek, West OK 520810000140_00	4a	Yes	PPWS	Chlorophyll-a	**Nutrients**		55040	Completed	Indirectly discharges to Thunderbird Lake, which is subject to TMDL reductions.						EFDC, HSPF
	4a	Yes	WWAC	Dissolved Oxygen	**None**		55040	Completed	Indirectly discharges to Thunderbird Lake, which is subject to TMDL reductions. No actual reductions required for CBOD in TMDL.						EFDC, HSPF
	4a	Yes	WWAC	Turbidity	**TSS**		55040	Completed	Indirectly discharges to Thunderbird Lake, which is subject to TMDL reductions.						EFDC, HSPF
	5a	Yes	PBCR	Enterococci	Enterococci	Draft		2024	2015 Bacterial Total Maximum Daily Loads for Oklahoma Streams in the Canadian River Area (OK520810)	WQS with 10% MOS	Yes	TMDL is currently in draft. Waiting for EPA approval.	Will be required to develop a bacteria monitoring plan and bacteria reduction plan.		
Chisholm Creek OK 620910040100_00	5a	No	PPWS	Nitrates	Nitrates	Pending		2025-2027	*Recent Priority Watershed Data could cause delisting, although this would require breaking Chisholm Creek into*	No OKC MS4 WLA	No	Meeting State Standards at City limits. This is a WWTP issue. Recommend adding a water body segment. Discussions with Utilities Dept. related that upgrades to a City	OK Issue Letter to State regarding data findings 2013-2014. Meeting Nitrate WQ standards at monitoring station.	2007-2009 (Watershed Characterization Project Site 622). 2013-2014 Priority Based Monitoring Program	

								more segments.			owned WWTF are required to meet discharge and downstream standards. Monitoring data provides that nitrate levels at the MS4 boundary are meting State WQ Standards.			
Deer Creek	OK 620910040120_00	4a	No	PBCR	Enterococci	**Enterococci**	37408		Completed	Bacteria Total Maximum Daily Loads for the Lower Cimarron River-Skeleton Creek Area (OK620910). *This TMDL lists reductions for fecal coliforms but not* E. coli *or enterococci.*			TMDL will impact a large portion of NW OKC (50,551.7 acres). Segment includes Bluff, Walnut, Deer, Soldier, and Piedmont Creeks	Provide recent data when TMDL development process begins.	2007-2009 (Watershed Characterization Project Sites 741, 46, 44, 769, 772) and Priority Based Monitoring Program 109, 741). OWRB has sampled *E. coli* in 2001, 02, 07, and 09 to total 13 samples. OWRB has sampled for Ent. 01, 02 (5 samples). OKC 2013-2014 Priority Monitoring is NS for *E. coli* or Enterococci at all sites in Bluff Creek.	LDC
		4a	No	PBCR	*E. coli*	***E. coli***	37408		Completed	Bacteria Total Maximum Daily Loads for the Lower Cimarron River-Skeleton Creek Area (OK620910). *This TMDL lists reductions*			TMDL will impact a large portion of NW OKC (50,551.7 acres). Segment includes Bluff, Walnut, Deer, Soldier, and Piedmont Creeks	Provide recent data when TMDL development process begins.	2007-2009 (Watershed Characterization Project Sites 741, 46, 44, 769, 772) and Priority Based Monitoring Program 109, 741). OWRB has sampled *E. coli* in 2001, 02, 07, and 09 to total 13	LDC

									for fecal coliforms but not E. coli *or enterococci.*					samples. OWRB has sampled for Ent. 01, 02 (5 samples). OKC 2013-2014 Priority Monitoring is NS for *E. coli* or Enterococci at all sites in Bluff Creek.	
	4a	No	WWAC	Turbidity	**TSS**	38654		Completed	Turbidity Maximum Daily Loads for the Lower Cimarron River-Skeleton Creek Area (OK620910).	18%	No	Stormwater MS4s are not considered in this TMDL	No action		LDC
Bluff Creek OK 620910040140_00	4a	Yes	PBCR	Enterococci	**Enterococci**	42517		Completed	2012 Bacteria and Turbidity Total Maximum Daily Loads for the Cimarron River Study Area (OK620900, OK620910).	93%	Yes	Appendix E - Stormwater permitting and presumptive BMP approach.	Bacteria reduction plan, bacteria monitoring plan, annual reporting. Recent data (2013-2014) Enterococcus - failed 4 sites. *E. coli* failed 2 sites.		LDC
	5a	Yes	PBCR	*E. coli*	*E. coli*	Pending		2025-2027	2014 303d listing						
Hefner Lake OK 620910040200_00	a	Yes	WWAC	Dissolved Oxygen	Nutrients, CBOD, SOD²	Pending		2025-2027	***2022 303d listing***						
	5c	Yes	FC	Mercury	**Mercury**	Requires additional data		2025-2027	***2022 303d listing***						

Appendix G: NPDES Discharge Locations in Oklahoma City

Permit Name	NPDES ID	Outfall ID	Location Address	City	Permit Status	Facility Type	Program Type	Major / Minor	Latitude	Longitude
OG&E-Mustang	OK0000477	001A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	Effective	Privately Owned Facility	Industrial Wastewater	Minor	35.471111	-97.673333
USAF-Tinker AFB-OKC	OK0000809	005A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Major	35.424722	-97.377778
Georgia Gulf Chemicals & Vinyl	OK0001031	002A	5200 SE 59TH ST	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
Veolia Energy Oklahoma City, Inc.	OK0002453	001A	ONE NORTH E.K. GAYLORD BLVD.	OKLAHOMA CITY	Effective	Privately Owned Facility	Industrial Wastewater	Minor	35.466472	-97.513057
Vicinity Energy Oklahoma City, Inc.	OK0002453	001A	ONE NORTH E.K. GAYLORD BLVD.	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
LUCENT TECHNOLOGIES, INC.	OK0020974	005A	7725 WEST RENO AVENUE	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
Spencer, City of	OK0022535	001A	6401 N DOUGLAS BLVD	SPENCER	Admin Continued	Municipal or Water District	Municipal Wastewater	Minor	35.537972	-97.373222
Mustang Improvement Authority	OK0026816	001A	224 W. SH 152	MUSTANG	Admin Continued	Municipal or Water District	Municipal Wastewater	Major	35.325194	-97.731861
Moore, City of	OK0027391	001A	4000 S. I35 SERVICE RD.	MOORE	Admin Continued	Municipal or Water District	Municipal Wastewater	Major	35.290667	-97.551389
Coreslab Structures (Oklahoma), Inc	OK0034908	007A	817 S.E. 55TH STREET	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
Tinker Air Force Base	OK0035203	001A	7447 SE 74TH ST	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
OK City, City of-North Canadian	OK0036978	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	Admin Continued	Municipal or Water District	Municipal Wastewater	Major	35.596833	-97.312556
Acme Brick Co-OKC Plant	OK0038253	001A	500 E MEMORIAL ROAD	OKLAHOMA CITY	Admin Continued	Privately Owned Facility	Industrial Wastewater	Minor	35.60913	-97.50485
OK City, City of-South Canadian	OK0038385	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	Admin Continued	Municipal or Water District	Municipal Wastewater	Major	35.307528	-97.558917
Holliday Outt MHP	OK0039136	001A	604 MUSTANG PLANT ROAD	OKLAHOMA CITY	Admin Continued	Privately Owned Facility	Municipal Wastewater	Minor	35.472944	-97.669528
Lakeview Terrace MHP	OK0040525	001A	1204 N LAKEVIEW DRIVE	OKLAHOMA CITY		Municipal or Water District	Municipal Wastewater		0	0
DOLESE BROS. CO.- OKC SUNNY LN	OK0042561	001A	7000 S. SUNNYLANE RD	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
US FAA Mike Monroney Aero. Center	OK0043931	001A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	Admin Continued	Federal Facility (U.S. Government)	Industrial Wastewater	Minor	35.42467	-97.618683
TINKER AFB-SW TREATMENT PLANT	OK0044067	001A	OC-AL/EM,7701 ARNOLD ST STE 204	TINKER AFB		Federal Facility (U.S. Government)	Industrial Wastewater		0	0
Quad Graphics, Inc.	OK0044989	001A	6801 SUNNYLANE ROAD	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
7725 Reno #1	OK0045187	001A	7725 W RENO, STE 398	OKLAHOMA CITY	Terminated	Privately Owned Facility	Industrial Wastewater	Minor	35.464435	-97.648757
TH Agriculture & Nutrition, L.L.C.	OK0045608	001A	3909 S. MERIDIAN AVE.	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
OG&E- REDBUD GENERATING STATION	OK0100552	001A	20922 NORTH TRIPLE X ROAD	LUTHER		Privately Owned Facility	Industrial Wastewater		0	0
Riversport Rapids	OK0100579	001A	800 SE RIVERSPORT DR	CITY OF OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0

DOLESE BROS. CO.- SW 29TH ST	OKG110009	001A	4100 SOUTHWEST 29TH STREET	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
DOLESE BROS. CO.- SOUTH HIGH	OKG110010	001A	4800 SOUTH HIGH STREET	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
DOLESE BROS. CO.- YUKON BATCH	OKG110011	001A	10700 NORTHWEST 10TH STREET	YUKON		Privately Owned Facility	Industrial Wastewater		0	0
DOLESE BROS. CO.-13TH ST BATCH	OKG110014	001A	11 NW 13TH STREET	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
Dolese Brothers Co.-Sunny Lane	OKG110060	001A	7100 S. SUNNY LANE RD.	OKLAHOMA CITY		Privately Owned Facility	Industrial Wastewater		0	0
Coreslab Structures, Inc.	OKG110065	007A	817 SE 55TH ST	OKLAHOMA CITY	Effective	Privately Owned Facility	Industrial Wastewater	Minor	35.409877	-97.496781
Belger Cartage Service, Inc.	OKG750009	001A	3837 W. RENO	OKLAHOMA CITY	Effective	Privately Owned Facility	Industrial Wastewater	Minor	35.46438	-97.586381

Appendix H: Area Specific Construction Requirements: Lake Thunderbird Watershed Total Maximum Daily Load (TMDL) Specific Requirements for Construction Stormwater Permits

The City of
OKLAHOMA CITY
Department of Public Works
Storm Water Quality Management

LAKE THUNDERBIRD WATERSHED TOTAL MAXIMUM DAILY LOAD (TMDL) SPECIFIC REQUIREMENTS FOR CONSTRUCTION STORMWATER PERMITS

In addition to the general provisions of the OKR10 General Permit for Storm Water Discharges from Construction Activities within the State of Oklahoma, construction activities authorized which are located in the Lake Thunderbird watershed will be required to:

A. Comply with any additional pollutant prevention or discharge monitoring requirements established by the local MS4 municipalities.

B. Submit to the DEQ all Storm Water Pollution Prevention Plans (SWP3) for sites of five acres or larger.

The following provisions will be included as site-specific requirements in all authorizations issued by DEQ or The City of Oklahoma City for construction activities located in the Lake Thunderbird watershed:

A. Vegetated buffer. You must ensure that a vegetated buffer of at least 100 feet is retained or successfully established/planted between the area disturbed and all receiving streams. If the nature of the construction activity or the construction site makes a buffer impossible, you must provide equivalent controls. There are exceptions from this requirement for water crossings, limited water access, and stream restoration authorized under a CWA Section 404 permit.

B. Sediment basins. For all drainage locations serving 5 or more acres disturbed at one time, you must use a temporary or permanent sediment basin and/or sediment traps to minimize sediment discharges.

C. Site inspections. You must conduct site inspections once every 7 calendar days at a minimum, and within 24 hours of a storm event of 0.5 inches or greater and within 24 hours of a discharge caused by snowmelt.

D. Corrective actions. You must implement the corrective actions (e.g., repair, modify, or replace any stormwater control used at the site, clean up and dispose of spills, releases, or other deposits, or remedy a permit violation) by no later than 7 calendar days from the time of discovery. If it is infeasible to complete the installation or repair within 7 calendar days, you must document in your records why it is infeasible to complete the installation or repair within the 7 calendar day timeframe and document your schedule for installing the stormwater controls and making it operational as soon as practicable after the 7 day timeframe.

E. Stabilization. You must initiate stabilization measures immediately whenever earth-disturbing activities have permanently or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. You are required to complete the stabilization activities within 7 calendar days after the permanent or temporary cessation.

F. Soil nutrient testing. You are required to conduct a soil nutrient test to determine actual nutrient needs before applying fertilizer on your site. Fertilizer application must be limited to that necessary to meet actual needs on the site. If fertilizing is not conducted during the vegetation re-establishment, the SWP3 must clearly indicate that no fertilizer was used.

If you have any questions, contact Storm Water Quality at 297-1774.

420 West Main, Suite 360, Oklahoma City, OK 73102 • 405/297-1774 • FAX 405/297-1770

Appendix I: Area Specific Industrial Requirements: Lake Thunderbird Watershed Total Maximum Daily Load (TMDL) Specific Requirements for Multi-Sector General Permit (Industrial) Stormwater Permits

The City of
OKLAHOMA CITY
Department of Public Works
Storm Water Quality Management

LAKE THUNDERBIRD WATERSHED TOTAL MAXIMUM DAILY LOAD (TMDL) SPECIFIC REQUIREMENTS FOR MULTI-SECTOR GENERAL PERMIT (INDUSTRIAL) STORMWATER PERMITS

In addition to the general provisions of the OKR05 General Permit (General Permit for Storm Water Discharges from Industrial Facilities under the Multi-Sector Industrial General Permit [MSGP] within the State of Oklahoma), specific requirements will be added to existing and future permits for MSGP permittees in the Lake Thunderbird watershed engaged in activities specified by the Standard Industrial Classification (SIC) Code or Activity Code as:

- ☐ 2951,2952: Asphalt Paving and Roofing Materials (production).
- ☐ 3271-3275: Concrete, Gypsum and Plaster Products (production).
- ☐ 1442,1446: Sand and Gravel (mineralmining and dressing).
- ☐ Other activities deemed to be potential sources of nutrients and sediment to the Lake as determined by the DEQ on a case-by-case basis.

The following provisions will be included as site-specific requirements in existing and future authorizations under OKR05 and the City of Oklahoma City:

A. Revise the Storm Water Pollution Prevention Plan (SWP3) for additional Total Suspended Solids and nutrient reduction measures and submit the SWP3 for DEQ review.

B. Perform monthly inspection and maintenance of stormwater management devices, facility equipment and systems to avoid breakdowns or failures.

C. If the permit is for an activity that includes numeric effluent limits (see Table 1-3 of the MSGP), monitoring and reporting of the discharge is required once per month rather than once per year.

D. Comply with any additional pollutant prevention or discharge monitoring requirements established by the local MS4 municipalities. Compliance with these specific requirements must be reflected in the permittee's Annual Comprehensive Site Compliance Evaluation Report (ACSCER), in addition to documents within the SWP3.

If you have any questions, contact Storm Water Quality at 297-1774.

420 West Main, Suite 360, Oklahoma City, OK 73102 • 405/297-1774 • FAX 405/297-1770

Appendix J: Administrative Enforcement Remedies Document

City of Oklahoma City
Storm Water Quality Management Division
420 West Main Street, Suite 360
(405) 297-1774
stormwater@okc.gov

Permit #

Name:	John Doe		
Address	420 West Main Street, Oklahoma City 73102		
Phone:		RP Email	example@okc.gov
Business Name:	City of Oklahoma City		
Business Address:		Business Email:	
Business Phone:			
Permit Name:	420 West Main Example		
Permit Location:	420 West Main Street, Oklahoma City, Oklahoma 73102		
Violation:	Working without permit and required controls for land disurbing activities.		

☐ **Notice of Violation**

You are hereby notified that you have violated sections(s) of the City of Oklahoma City Municipal Code.

Chapter 48 Section 23 Paragraph(s) j

48-23 (j) Structural controls shall be designed and maintained as required to prevent pollution.

You will be compelled to abate the violation by 12/30/2024 , or the penalty of the ordinance will be enforced.

☑ **Compliance Order**

You are hereby notified and ordered under Chapter 57-181(d) to comply fully with the letter and intent of the below specified items to ensure that proper structures or devices be installed or procedures implemented and properly operated, supervised, and administrated.

Required Action(s)

For example purposes only.

You shall comply with the City of Oklahoma City Municipal Code by 12/30/24 ,or penalty of the ordinance will be enforced.

☑ **Cease and Desist**

You are hereby notified and ordered under Chapter 57-181(e) to cease and desist all activities specified by the Manager or representatives thereof that are in violation with the provision set forth by City ordinance. This order is effective per the issuance date specified below for the below designated site or facility activity (activities).

For example purposes only.

Issuance

Code Enforcement Officer	Derek Johnson			Commission Number	28005
Date Issued	12/30/24	Time Issued	10:33 AM	Enforcement ID Record	5216

(a) Notification of violation. Whenever the Manager finds that any permittee or any person discharging stormwater has violated or is violating this article, or a Stormwater permit or order issued hereunder, the Manager or his designee may serve upon said person or permittee written notice of the violation. Within ten calendar days of the receipt date of this notice, an explanation of the violation and a plan for the satisfactory correction and prevention thereof, to include specific required actions, shall be submitted to the Manager. Submission of this plan in no way relieves the discharger of liability or criminal prosecution for any violations occurring before or after receipt of the notice of violation.

(b) Consent orders. The Manager is hereby empowered to enter into consent orders, assurances of voluntary compliance, or other similar documents establishing an agreement with the person responsible for the compliance and for the noncompliance. Such orders will include specific action to be taken by the discharger, operator and owner to correct the noncompliance within a time period also specified by the order. Consent orders shall have the same force and effect as administrative orders issued pursuant to paragraph (d) below.

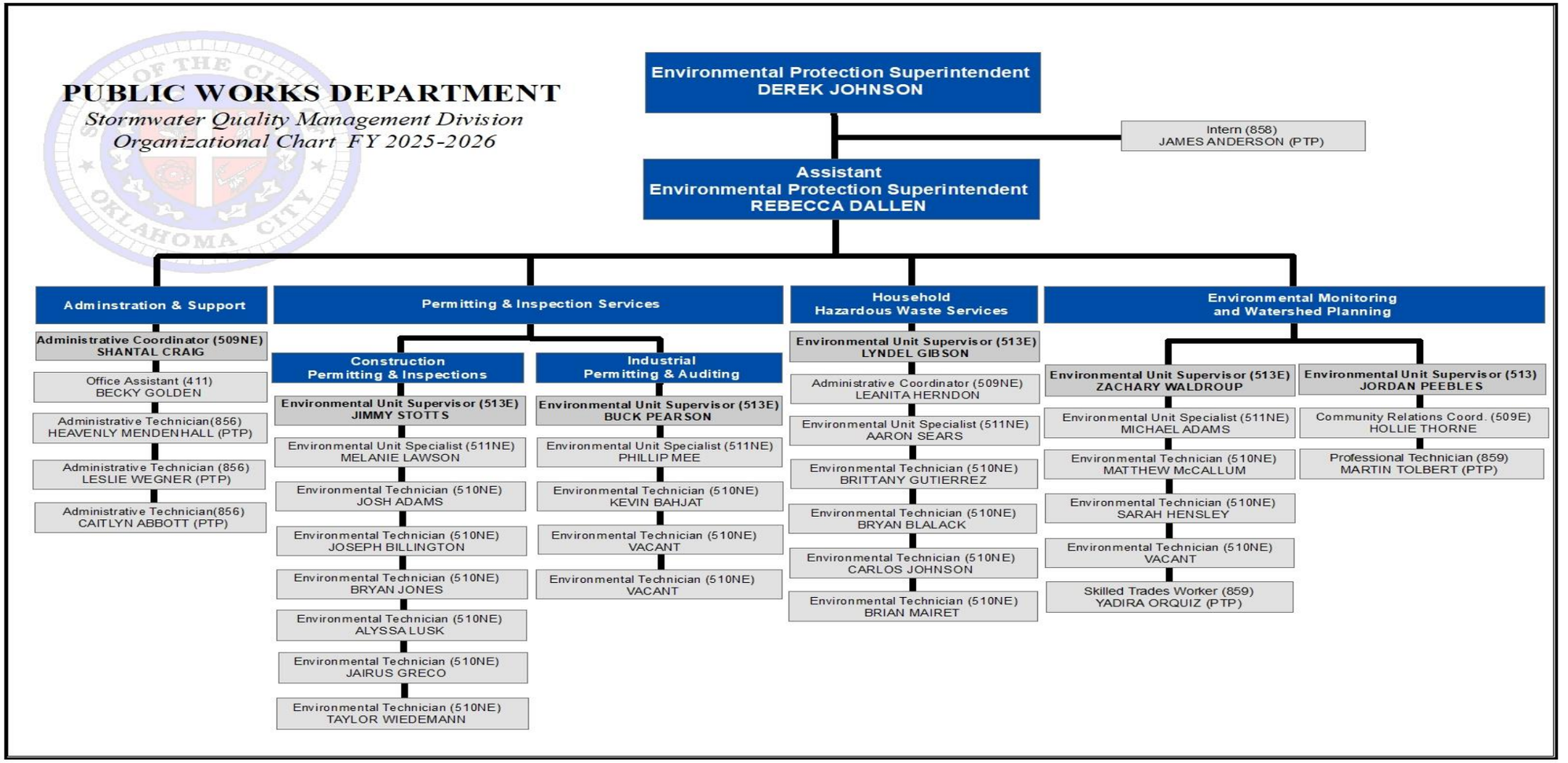
(c) Show cause hearing. The Manager may order any person who causes or contributes to violation of this article or Stormwater permit or order issued hereunder, to show cause why a proposed enforcement action should not be taken. Notice shall be served specifying the time and place for the meeting, the proposed enforcement action and the reasons for such action, and a request that the violator show cause why this proposed enforcement action should not be taken. The notice of the meeting shall be served personally or by registered or certified mail (return receipt requested) at least ten calendar days prior to the hearing. Such notice may be served on any individual or the individual or the principal executive, general partner or manager of any legal entity or person of legal age at the office or business address of the permittee.

(c) Show cause hearing. The Manager may order any person who causes or contributes to violation of this article or Stormwater permit or order issued hereunder, to show cause why a proposed enforcement action should not be taken. Notice shall be served specifying the time and place for the meeting, the proposed enforcement action and the reasons for such action, and a request that the violator show cause why this proposed enforcement action should not be taken. The notice of the meeting shall be served personally or by registered or certified mail (return receipt requested) at least ten calendar days prior to the hearing. Such notice may be served on any individual or the individual or the principal executive, general partner or manager of any legal entity or person of legal age at the office or business address of the permittee.

(d) Compliance order. When the Manager finds that any person has violated or continues to violate this article or a permit or order issued thereunder, the Manager may issue an order to the violator directing that, following a specified time period, adequate structures or devices be installed or procedures implemented and properly operated, supervised and administrated. Orders may also contain such other requirements as might be reasonably necessary and appropriate to address the noncompliance, including the construction of appropriate structures, installation of devices, self-monitoring, and best management practices.

(e) Cease and desist orders. Not withstanding any other notice, order or administrative process provided by this section. When the Manager finds that any person has violated or continues to violate this article or any permit or order issued hereunder, and also finds that such violation may cause an impairment of water quality or that a permit is required and has not been issued, the Manager may issue an order to cease and desist all such violations and direct those persons in noncompliance to: (1) comply forthwith; or (2) take such appropirate remedial or preventive action as may be needed to properly address a continuing or threatened violation, including halting operations or terminating the discharge or both.

Appendix K: Storm Water Quality Division Organizational Chart (2025)



Appendix L: Curbs to Creeks Program Forms

Oklahoma City, Storm Water Quality Division
Curbs to Creeks Program

Curb Marking Instructions

1. Put on all safety equipment provided (latex gloves, safety glasses and safety vest).

2. Use provided wire brush to scrape the curbside clean of any dirt or debris.

3. Apply adhesive to the back of the curb marker.

4. Apply the marker to the curb (make sure the marker is right side up).

5. On provided map, make sure to mark the drains that you have marked so we can keep track in our records.

Make sure that above all else your safety comes first. If you don't feel safe, don't apply the marker.

Group Name/Facility Name:				
Primary Contact:				
Group Members:				
Total Number of Curb Markers Applied:		*If multiple sheets are used, please number below (i.e. - 1 of 2)*		
			of	
Description of Area(s) Marked (E/W/N/S Street Boundaries):				
Nearest location (address or number on site map)	Number Applied		Nearest location (address or number on site map)	Number Applied
1			23	
2			24	
3			25	
4			26	
5			27	
6			28	
7			29	
8			30	
9			31	
10			32	
11			33	
12			34	
13			35	
14			36	
15			37	
16			38	
17			39	
18			40	
19			41	
20			42	
21			43	
22			44	

Curbs to Creeks Data Sheet Revision 2, August 29, 2014

CURBS TO CREEKS

Application Report Form

Individual or group name: _____

Date of event: _____

Number of volunteers: _____

Number of markers placed: _____

Were there enough supplies: _____

Other comments: _____

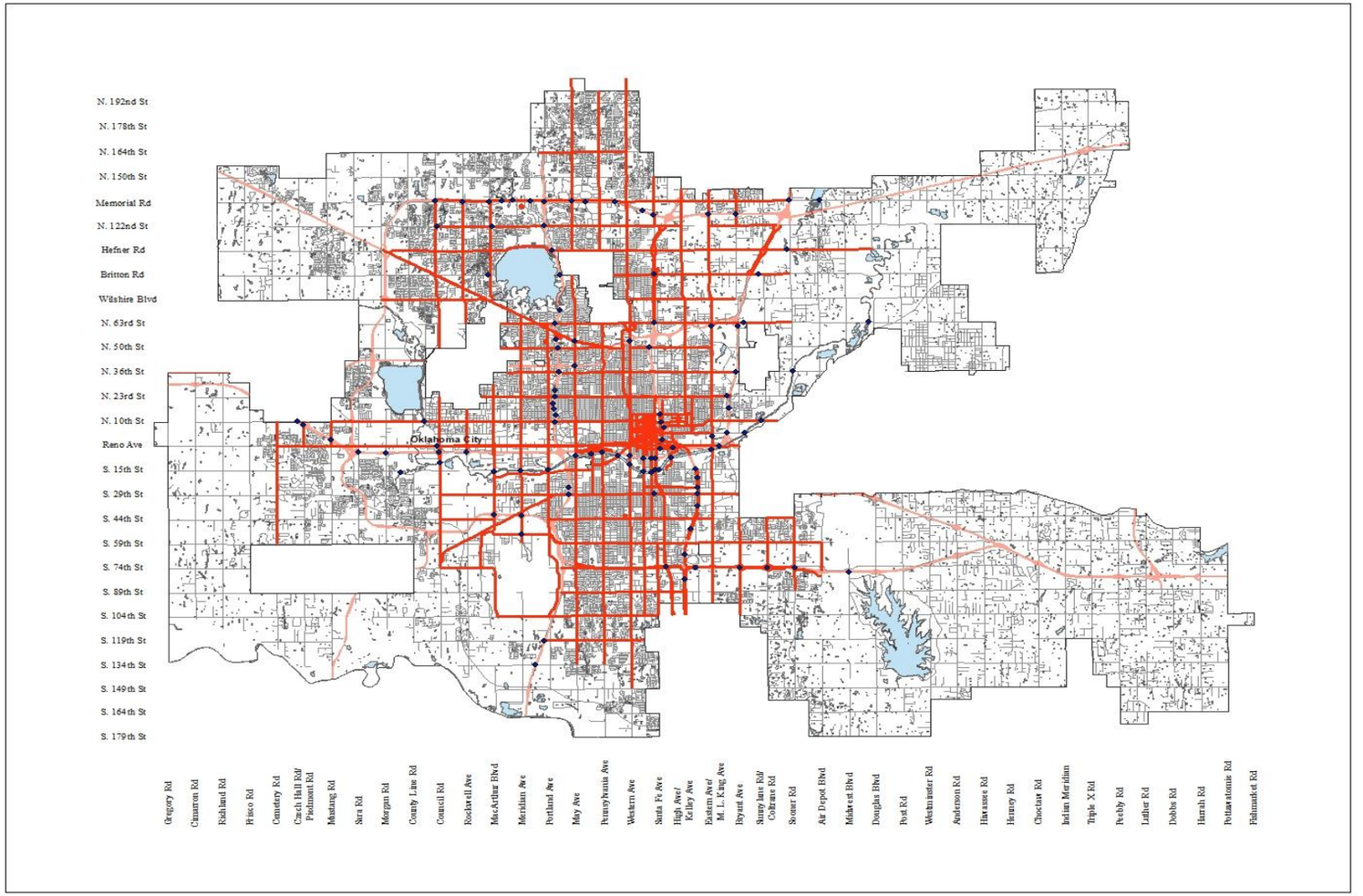
- Use the map to indicate the location of new markers applied
- Return supplies within three (3) days of the event

Andrea Shelton | Community Relations Coordinator

Public Works Department - Storm Water Quality Division

Desk: (405) 297-1797| Fax: (405) 297-1770 | 420 W. Main Street, Suite 360 | OKC, OK 73102

Appendix M: OKC Regional Snow Route - Bridge Application Locations



OKC Regional Snow Route – Bridges

SNOW ROUTE ID	SN ROUTE	SN SUB ROUTE	QUADRANT	LANE MILES	RELOAD	FACILITY ID	LOCATION
1901	1B	1	SW	1	CMF	22-1901	SUB: 1; LOC: Exchange – over Oklahoma River/I-40/RR; QUAD: SW; LM: 1
1902	1B	2	SW	0.5	CMF	22-1902	SUB: 2; LOC: Penn – over Oklahoma River; QUAD: SW; LM: 0.5
1903	1B	3	SW	0.5	CMF	22-1903	SUB: 3; LOC: Agnew – over Oklahoma River; QUAD: SW; LM: 0.5
1904	1B	4	SW	0.5	CMF	22-1904	SUB: 4; LOC: May – over Oklahoma River; QUAD: SW; LM: 0.5
1905	1B	5	SW	0.5	CMF	22-1905	SUB: 5; LOC: Portland – over Oklahoma River; QUAD: SW; LM: 0.5
1906	1B	6	SW	0.5	CMF	22-1906	SUB: 6; LOC: Meridian – over Oklahoma River; QUAD: SW; LM: 0.5
1907	1B	7	SW	0.5	CMF	22-1907	SUB: 7; LOC: Meridian – over Airport Rd; QUAD: SW; LM: 0.5
1908	1B	8	SW	0.5	CMF	22-1908	SUB: 8; LOC: Meridian – over SW 54th; QUAD: SW; LM: 0.5
1909	1B	9	SW	0.5	CMF	22-1909	SUB: 9; LOC: MacArthur – over Airport Rd; QUAD: SW; LM: 0.5
1910	1B	10	SW	0.5	CMF	22-1910	SUB: 10; LOC: MacArthur – over N Canadian River; QUAD: SW; LM: 0.5
1911	1B	11	SW	0.5	CMF	22-1911	SUB: 11; LOC: Council – over N Canadian River; QUAD: SW; LM: 0.5
2902	2B	2	SW	0.5	CMF	22-2902	SUB: 2; LOC: Rockwell – over I-40; QUAD: SW; LM: 0.5
2903	2B	3	SW	0.5	CMF	22-2903	SUB: 3; LOC: Council – over I-40; QUAD: SW; LM: 0.5
2904	2B	4	SW	0.5	CMF	22-2904	SUB: 4; LOC: Morgan – over I-40; QUAD: SW; LM: 0.5
2906	2B	6	SW	0.5	CMF	22-2906	SUB: 6; LOC: Mustang Rd – over I-40; QUAD: SW; LM: 0.5
2907	2B	7	SW	0.5	CMF	22-2907	SUB: 7; LOC: Czech Hall – over I-40; QUAD: SW; LM: 0.5
2908	2B	8	SW	0.5	CMF	22-2908	SUB: 8; LOC: NW 10th – over I-40; QUAD: SW; LM: 0.5
2909	2B	9	SW	0.5	CMF	22-2909	SUB: 9; LOC: Reno – over N Canadian River; QUAD: SW; LM: 0.5
2905	2B	5	SW	0.5	CMF	22-2905	SUB: 5; LOC: Sara Rd – over I-40; QUAD: SW; LM: 0.5
2911	2B	11	SW	0.5	CMF	22-2911	SUB: 11; LOC: SW 29th – over I-44; QUAD: SW; LM: 0.5
2912	2B	12	SW	0.5	CMF	22-2912	SUB: 12; LOC: SW 119th – over I-44; QUAD: SW; LM: 0.5
2913	2B	13	SW	0.5	CMF	22-2913	SUB: 13; LOC: SW 134th – over I-44; QUAD: SW; LM: 0.5

3901	3B	1	SE	0.5	River Yard	22-3901	SUB: 1; LOC: Shields – over I-240; QUAD: SE; LM: 0.5
3902	3B	2	SE	0.5	River Yard	22-3902	SUB: 2; LOC: Pole Rd – over I-240; QUAD: SE; LM: 0.5
3903	3B	3	SE	0.5	River Yard	22-3903	SUB: 3; LOC: Bryant – over I-240; QUAD: SE; LM: 0.5
3904	3B	4	SE	0.5	River Yard	22-3904	SUB: 4; LOC: Sunnylane – over I-240; QUAD: SE; LM: 0.5
3905	3B	5	SE	0.5	River Yard	22-3905	SUB: 5; LOC: Sooner – over I-240; QUAD: SE; LM: 0.5
3906	3B	6	SE	0.5	River Yard	22-3906	SUB: 6; LOC: Midwest Blvd – over I-240; QUAD: SE; LM: 0.5
4901	4B	1	SE	0.5	River Yard	22-4901	SUB: 1; LOC: Western – over Oklahoma River; QUAD: SE; LM: 0.5
4903	4B	3	SE	0.5	River Yard	22-4903	SUB: 3; LOC: Walker – over Oklahoma River; QUAD: SE; LM: 0.5
4905	4B	5	SE	6	River Yard	22-4905	SUB: 5; LOC: Shields – over Oklahoma River; QUAD: SE; LM: 6
5901	5B	1	SE	0.5	River Yard	22-5901	SUB: 1; LOC: Robinson – over Oklahoma River; QUAD: SE; LM: 0.5
5903	5B	3	SE	0.5	River Yard	22-5903	SUB: 3; LOC: SE 15th – over Oklahoma River; QUAD: SE; LM: 0.5
5904	5B	4	SE	2	River Yard	22-5904	SUB: 4; LOC: Lincoln/Central – over Oklahoma River; QUAD: SE; LM: 2
5905	5B	5	SE	0.5	River Yard	22-5905	SUB: 5; LOC: SE 15th – over I-35; QUAD: SE; LM: 0.5
5907	5B	7	SE	0.5	River Yard	22-5907	SUB: 7; LOC: SE 25th – over I-35; QUAD: SE; LM: 0.5
6904	6B	4	SE	0.5	CMF	22-6904	SUB: 4; LOC: SE 51st – over I-35; QUAD: SE; LM: 0.5
6906	6B	6	SE	0.5	CMF	22-6906	SUB: 6; LOC: SE 82nd – over I-35; QUAD: SE ; LM: 0.5
6903	6B	3	SE	0.5	CMF	22-6903	SUB: 3; LOC: SE 36th – over I-35; QUAD: SE; LM: 0.5
6902	6B	2	SE	0.5	CMF	22-6902	SUB: 2; LOC: SE 29th – over I-35; QUAD: SE; LM: 0.5
6901	6B	1	SE	0.5	CMF	22-6901	SUB: 1; LOC: SE 29th – over Lightning Creek; QUAD: SE; LM: 0.5
7901	7B	1	DT	0.5	River Yard	22-7901	SUB: 1; LOC: Walnut (Finley Bridge) – over Main Street; QUAD: DT; LM: 0.5
7902	7B	2	DT	1	River Yard	22-7902	SUB: 2; LOC: Reno Ave – over I-40; QUAD: DT; LM: 1
7903	7B	3	DT	1	River Yard	22-7903	SUB: 3; LOC: MLK – North of Reno; QUAD: DT; LM: 1
7904	7B	4	DT	0.5	River Yard	22-7904	SUB: 4; LOC: NW 6th (Harrison) – over I-235; QUAD: DT; LM: 0.5
7905	7B	5	DT	0.5	River Yard	22-7905	SUB: 5; LOC: NW 10th – over I-235; QUAD: DT; LM: 0.5

7906	7B	6	DT	0.5	River Yard	22-7906	SUB: 6; LOC: NW 13th – over I-235; QUAD: DT; LM: 0.5
9911	9B	11	NE	0.5	River Yard	22-9911	SUB: 11; LOC: NW 63rd – over Broadway Ext; QUAD: NE; LM: 0.5
9912	9B	12	NE	0.5	River Yard	22-9912	SUB: 12; LOC: MLK – over Deep Fork; QUAD: NE; LM: 0.5
9913	9B	13	NE	0.5	River Yard	22-9913	SUB: 13; LOC: Britton – over Broadway Ext; QUAD: NE; LM: 0.5
9902	9B	2	NE	1	River Yard	22-9902	SUB: 2; LOC: NE 4th – over N Canadian River; QUAD: NE; LM: 1
9903	9B	3	NE	0.5	River Yard	22-9903	SUB: 3; LOC: NE 10th – over N Canadian River; QUAD: NE; LM: 0.5
9905	9B	5	NE	0.5	River Yard	22-9905	SUB: 5; LOC: NE 23rd – over Railroad Tracks; QUAD: NE; LM: 0.5
9907	9B	7	NE	0.5	River Yard	22-9907	SUB: 7; LOC: NE 36th – over N Canadian River; QUAD: NE; LM: 0.5
9908	9B	8	NE	0.5	River Yard	22-9908	SUB: 8; LOC: Bryant – over Deep Fork; QUAD: NE; LM: 0.5
9909	9B	9	NE	0.5	River Yard	22-9909	SUB: 9; LOC: NE 63rd – over Deep Fork; QUAD: NE; LM: 0.5
9910	9B	10	NE	0.5	River Yard	22-9910	SUB: 10; LOC: NE 63rd – over N Canadian River; QUAD: NE; LM: 0.5
10902	10B	2	NE	0.5	CMF	22-10902	SUB: 2; LOC: Britton Rd – over Deep Fork; QUAD: NE; LM: 0.5
10903	10B	3	NE	0.5	CMF	22-10903	SUB: 3; LOC: Hefner – over Deep Fork; QUAD: NE; LM: 0.5
10904	10B	4	NE	0.5	CMF	22-10904	SUB: 4; LOC: Memorial Rd – over Deep Fork; QUAD: NE; LM: 0.5
10905	10B	5	NE	0.5	CMF	22-10905	SUB: 5; LOC: Memorial Rd – over I-35; QUAD: NE; LM: 0.5
10906	10B	6	NE	0.5	CMF	22-10906	SUB: 6; LOC: Bryant – over Kilpatrick; QUAD: NE; LM: 0.5
10907	10B	7	NE	0.5	CMF	22-10907	SUB: 7; LOC: Eastern Ave – over Kilpatrick; QUAD: NE; LM: 0.5
10908	10B	8	NE	0.5	CMF	22-10908	SUB: 8; LOC: Santa Fe – over Kilpatrick; QUAD: NE; LM: 0.5
10909	10B	9	NE	0.5	CMF	22-10909	SUB: 9; LOC: Bridge west of Santa Fe – over Kilpatrick; QUAD: NE; LM: 0.5
11903	11B	3	NW	0.5	CMF	22-11903	SUB: 3; LOC: May – over NW Expressway; QUAD: NW; LM: 0.5
11904	11B	4	NW	0.5	CMF	22-11904	SUB: 4; LOC: Grand Blvd/S Lake Hefner Drive – over Hefner Parkway; QUAD: NW; LM: 0.5
11905	11B	5	NW	0.5	CMF	22-11905	SUB: 5; LOC: Britton Rd – over Hefner Parkway; QUAD: NW; LM: 0.5
11906	11B	6	NW	0.5	CMF	22-11906	SUB: 6; LOC: Hefner – over Hefner Parkway; QUAD: NW; LM: 0.5
11907	11B	7	NW	0.5	CMF	22-11907	SUB: 7; LOC: Britton – west of N MacArthur; QUAD: NW; LM: 0.5

11908	11B	8	NW	0.5	CMF	22-11908	SUB: 8; LOC: NW 122nd – over Hefner Parkway; QUAD: NW; LM: 0.5
11909	11B	9	NW	0.5	CMF	22-11909	SUB: 9; LOC: NW 122nd – east of N MacArthur; QUAD: NW; LM: 0.5
11910	11B	10	NW	0.5	CMF	22-11910	SUB: 10; LOC: NW 122nd – east of N Council; QUAD: NW; LM: 0.5
12901	12B	1	NW	0.5	CMF	22-12901	SUB: 1; LOC: Pawnee Dr – over Kilpatrick; QUAD: NW; LM: 0.5
12902	12B	2	NW	0.5	CMF	22-12902	SUB: 2; LOC: Highland Park Blvd – over Kilpatrick; QUAD: NW; LM: 0.5
12903	12B	3	NW	0.5	CMF	22-12903	SUB: 3; LOC: May Ave – over Kilpatrick; QUAD: NW; LM: 0.5
12904	12B	4	NW	0.5	CMF	22-12904	SUB: 4; LOC: Memorial Rd – over Hefner Parkway; QUAD: NW; LM: 0.5
12905	12B	5	NW	0.5	CMF	22-12905	SUB: 5; LOC: Memorial Rd – west of N Meridian; QUAD: NW; LM: 0.5
12906	12B	6	NW	0.5	CMF	22-12906	SUB: 6; LOC: Tulsa Ave – over Kilpatrick; QUAD: NW; LM: 0.5
12907	12B	7	NW	0.5	CMF	22-12907	SUB: 7; LOC: Martin Park Blvd – over Kilpatrick; QUAD: NW; LM: 0.5
12908	12B	8	NW	0.5	CMF	22-12908	SUB: 8; LOC: MacArthur Blvd – over Kilpatrick; QUAD: NW; LM: 0.5
12909	12B	9	NW	0.5	CMF	22-12909	SUB: 9; LOC: Rockwell Ave – over Kilpatrick; QUAD: NW; LM: 0.5
12910	12B	10	NW	0.5	CMF	22-12910	SUB: 10; LOC: Council Rd – over Kilpatrick; QUAD: NW; LM: 0.5
13902	13B	2	W	0.5	CMF	22-13902	SUB: 2; LOC: NW 10th – over I-44; QUAD: W; LM: 0.5
13903	13B	3	W	0.5	CMF	22-13903	SUB: 3; LOC: NW 12th – over I-44; QUAD: W; LM: 0.5
13904	13B	4	W	0.5	CMF	22-13904	SUB: 4; LOC: NW 16th – over I-44; QUAD: W; LM: 0.5
13905	13B	5	W	0.5	CMF	22-13905	SUB: 5; LOC: NW 19th – over I-44; QUAD: W; LM: 0.5
13906	13B	6	W	0.5	CMF	22-13906	SUB: 6; LOC: NW 23rd – over I-44; QUAD: W; LM: 0.5
13907	13B	7	W	0.5	CMF	22-13907	SUB: 7; LOC: NW 27th – over I-44; QUAD: W; LM: 0.5
13908	13B	8	W	0.5	CMF	22-13908	SUB: 8; LOC: NW 36th – over I-44; QUAD: W; LM: 0.5
13909	13B	9	W	0.5	CMF	22-13909	SUB: 9; LOC: NW 50th – over Hefner Parkway; QUAD: W; LM: 0.5
13910	13B	10	W	0.5	CMF	22-13910	SUB: 10; LOC: NW 56th – over Hefner Parkway; QUAD: W; LM: 0.5
13911	13B	11	W	0.5	CMF	22-13911	SUB: 11; LOC: NW 63rd – over Hefner Parkway; QUAD: W; LM: 0.5
5908	5B	8	SE	1	River Yard	22-5908	SUB: 8; LOC: South Eastern – over Oklahoma River; QUAD: SE; LM: 1

6905	6B	5	SE	0.5	CMF	22-6905	SUB: 5; LOC: SE 66th – over I-35; QUAD: SE; LM: 0.5
9901	9B	1	NE	0.5	River Yard	22-9901	SUB: 1; LOC: NE 4th – over I-35; QUAD: NE; LM: 0.5
11901	11B	1	NW	0.5	CMF	22-11901	SUB: 1; LOC: Western – over I-44; QUAD: NW; LM: 0.5
11902	11B	2	NW	0.5	CMF	22-11902	SUB: 2; LOC: May – over I-44; QUAD: NW; LM: 0.5
13901	13B	1	W	0.5	CMF	22-13901	SUB: 1; LOC: NW 10th – over N Canadian River; QUAD: W; LM: 0.5
9906	9B	6	NE	0.5	River Yard	22-9906	SUB: 6; LOC: NE 36th – over I-35; QUAD: NE; LM: 0.5
4904	4B	4	SE	0.5	River Yard	22-4904	SUB: 4; LOC: Walker – Over I-40/RR; QUAD: SE; LM: 0.5
4902	4B	2	SE	0.5	River Yard	22-4902	SUB: 2; LOC: Western – Over I-40/RR; QUAD: SE; LM: 0.5
4906	4B	6	SE	0.5	River Yard	22-4906	SUB: 6; LOC: Shields – Over I-40; QUAD: SE; LM: 0.5
5902	5B	2	SE	0.5	River Yard	22-5902	SUB: 2; LOC: Robinson – over I-40; QUAD: SE; LM: 0.5
4907	4B	7	SE	0.5	River Yard	22-4907	SUB: 7; LOC: Lincoln/Central over I-40; QUAD: SE; LM: 0.5
2901	2B	1	SW	0.5	CMF	22-2901	SUB: 1; LOC: SW 15th St - West Creek; QUAD: SW; LM: .5;
2910	2B	10	SW	0.5	CMF	22-2910	SUB: 10; LOC: SW 25th St - I-40; QUAD: SW; LM: 0.5;
5906	5B	6	SE	0.5	River Yard	22-5906	SUB: 6; LOC: SE 20th St - Over I-35; QUAD: SE; LM: 0.5
9904	9B	4	NE	0.5	River Yard	22-9904	SUB: 4; LOC: NE 16th St - Over I-35; QUAD: NE; LM: 0.5;
8901	8B	1	DT	30	River Yard	22-8901	SUB: 1; LOC: OKC BLVD – I-40 EB TO I-235/I-35; QUAD: DT; LM: 30
10901	10B	1	DT	0.5	CMF	22-10901	SUB: 1; LOC: NW 50th - over I-235; QUAD NE; LM: 0.5

OKC Snow and Ice Regional Routes – Streets

SN ROUTE	SN SUBROUTE	QUADRANT	LANE MILES	RELOAD	FACILITY ID	LOCATION
1	2	SW	17	CMF	22-1002	SUB: 2; LOC: S MacArthur Blvd – SW 54th to W Reno; QUAD: SW; LM: 17
2	1	SW	8	CMF	22-2001	SUB: 1; LOC: SW 44th St – S MacArthur to S Council Rd; QUAD: SW; LM: 8
3	5	SW	12	CMF	22-3005	SUB: 5; LOC: SW 44th St – S Portland to S Western Ave; QUAD: SW; LM: 12
3	2	SW	12	CMF	22-3002	SUB: 2; LOC: SW 89th St – I-44 Hwy to S Western Ave; QUAD: SW; LM: 12
4	1	SW	12	CMF	22-4001	SUB: 1; LOC: S May Ave – SW 89th to SW 134th St; QUAD: SW; LM: 12

4	2	SW	16	CMF	22-4002	SUB: 2; LOC: SW 119th St – I-44 Hwy E to City Limits; QUAD: SW; LM: 16
6	2	SE	20	CMF	22-6002	SUB: 2; LOC: S 29th St – S Western to S Bryant Ave; QUAD: SE; LM: 20
4	4	SW	8	CMF	22-4004	SUB: 4; LOC: S 89th St – I-35 Hwy to S Western Ave; QUAD: SW; LM: 8
8	3	NE	10	Santa Fe	22-8003	SUB: 3; LOC: NE 10th St – MLK to Coltrane Rd; QUAD: NE; LM: 10
9	4	NE	24	Santa Fe	22-9004	SUB: 4; LOC: N 63rd St – N Western Ave to N Sooner Rd; QUAD: NE; LM: 24
9	1	NE	18	Santa Fe	22-9001	SUB: 1; LOC: MLK/N Eastern Ave – E Britton to Smiling Hill Blvd; QUAD: NE; LM: 18
10	2	NE	8	Santa Fe	22-10002	SUB: 2; LOC: Hefner Rd – N Western to N Kelley Ave; QUAD: NE; LM: 8
12	4	NW	16	Santa Fe	22-12004	SUB: 4; LOC: N MacArthur Blvd – W Memorial Rd to Wilshire Blvd; QUAD: NW; LM: 16
14	5	W	10	CMF	22-14005	SUB: 5; LOC: N MacArthur Blvd – W Reno Ave to NW 30th St; QUAD: W; LM: 10
19	3	DT	2	CMF	22-19003	SUB: 3; LOC: JW Simmons Blvd – NE 8th St to MLK; QUAD: DT; LM: 2
19	6	DT	2	CMF	22-19006	SUB: 6; LOC: SL Young Blvd – N Lincoln east to dead end; QUAD: DT; LM: 2
19	7	DT	2	CMF	22-19007	SUB: 7; LOC: NE 10th St – N Lincoln to Stonewall Ave; QUAD: DT; LM: 2
19	8	DT	1	CMF	22-19008	SUB: 8; LOC: Stonewall Ave – NE 8th to NE 13th St; QUAD: DT; LM: 1
19	9	DT	1	CMF	22-19009	SUB: 9; LOC: Phillips Ave – NE 8th to NE 13th St; QUAD: DT; LM: 1
18	4	DT	2	CMF	21-18004	SUB: 4; LOC: Joe Carter Ave – Reno/Johnny Bench to W Main; QUAD: DT; LM: 2
18	5	DT	4	CMF	21-18005	SUB: 5; LOC: Main St – EK Gaylord to Joe Carter Ave; QUAD: DT; LM: 4
18	6	DT	5	CMF	21-18006	SUB: 6; LOC: Mickey Mantle Dr/Walnut – Johnny Bench/Reno to Harrison; QUAD: DT; LM: 5
18	7	DT	1	CMF	21-18007	SUB: 7; LOC: N 4th St – N Broadway to N Lincoln Blvd; QUAD: DT; LM: 1
18	10	DT	3	CMF	21-18010	SUB: 10; LOC: N 10th St – N Broadway to N Lincoln Blvd; QUAD: DT; LM: 3
18	12	DT	4	CMF	21-18012	SUB: 12; LOC: N Oklahoma Ave – NE 13th to NE 2nd St; QUAD: DT; LM: 4
4	3	SW	16	CMF	22-4003	SUB: 3; LOC: S Western Ave – SW 89th to SW 149th St; QUAD: SW; LM: 16
18	9	DT	10	CMF	21-18009	SUB: 9; LOC: Walnut Ave – NE 10th St to NE 13th St; QUAD: DT; LM: 10
17	1	DT	4	CMF	22-17001	SUB: 1; LOC: W Reno Ave – Western Ave to EK Gaylord Blvd; QUAD: DT; LM: 4
17	2	DT	4	CMF	22-17002	SUB: 2; LOC: W Sheridan Ave – EK Gaylord to N Western Ave; QUAD: DT; LM: 4

17	3	DT	4	CMF	22-17003	SUB: 3; LOC: NW 4th St – N Western to Broadway Ave; QUAD: DT; LM: 4
14	2	W	4	CMF	22-14002	SUB: 2; LOC: N Czech Hall Rd – W Reno to NW 10th St; QUAD: W; LM: 4
3	1	SW	24	CMF	22-3001	SUB: 1; LOC: S May Ave – W Reno to SW 89th St; QUAD: SW; LM: 24
3	3	SW	12	CMF	22-3003	SUB: 3; LOC: SW 74th St/I-240 Svc Rd – S Western Ave to I-44 Hwy; QUAD: SW; LM: 12
3	4	SW	12	CMF	22-3004	SUB: 4; LOC: SW 59th St – S Portland to S Western Ave; QUAD: SW; LM: 12
5	1	SE	24	CMF	22-5001	SUB: 1; LOC: S Western Ave – W Reno Ave to SW 89th St; QUAD: SE; LM: 24
8	1	NE	28	Santa Fe	22-8001	SUB: 1; LOC: N MLK/N Eastern – E Reno to E Britton Rd; QUAD: NE; LM: 28
12	3	NW	22	Santa Fe	22-12003	SUB: 3; LOC: N Council Rd – NW 50th to W Memorial Rd; QUAD: NW; LM: 22
12	5	NW	31	Santa Fe	22-12005	SUB: 5; LOC: W Hefner Rd – N Western Ave to NW Expressway; QUAD: NW; LM: 31
14	7	W	21	CMF	22-14007	SUB: 7; LOC: NW 23rd St – N Western Ave to Donald Ave; QUAD: W; LM: 21
18	3	DT	4	CMF	21-18003	SUB: 3; LOC: E Sheridan Ave – EK Gaylord to N Lincoln Blvd; QUAD: DT; LM: 4
16	1	DT	10	CMF	22-16001	SUB: 1; LOC: EK Gaylord/Broadway – W Reno Ave to NW 23rd St; QUAD: DT; LM: 10
5	3	SE	4	CMF	22-5003	SUB: 3; LOC: SW Medical Center – 4401 S Western Ave; QUAD: SE; LM: 4
13	6	W	2	CMF	22-13006	SUB: 6; LOC: Deaconess Hospital – 5501 N Portland Ave; QUAD: W; LM: 2
18	1	DT	6	CMF	21-18001	SUB: 1; LOC: Reno Ave/Johnny Bench Dr – EK Gaylord to Lincoln Blvd; QUAD: DT; LM: 6
14	6	W	21	CMF	22-14006	SUB: 6; LOC: N Meridian Ave – W Reno Ave to NW Expressway; QUAD: W; LM: 21
18	11	DT	3	CMF	21-18011	SUB: 11; LOC: NW 13th St – N Broadway to N Lincoln Blvd; QUAD: DT; LM: 3
1	4	SW	18	CMF	22-1004	SUB: 4; LOC: S Council Rd – W Reno to SW 74th St; QUAD: SW; LM: 18
9	2	NE	2	Santa Fe	22-9002	SUB: 2; LOC: McBride Orthopedic Hospital – 9600 N Broadway Extension; QUAD: NE; LM: 0
1	1	SW	16	CMF	22-1001	SUB: 1; LOC: S Meridian Ave – Amelia Earhart Ln to Reno; QUAD: SW; LM: 16
2	2	SW	8	CMF	22-2002	SUB: 2; LOC: SW 54th St – S Regina Ave to S Portland Ave; QUAD: SW; LM: 8
2	3	SW	12	CMF	22-2003	SUB: 3; LOC: SW 15th St – S MacArthur to S Agnew Ave; QUAD: SW; LM: 12
2	4	SW	8	CMF	22-2004	SUB: 4; LOC: S Agnew Ave – W Reno to SW 29th St; QUAD: SW; LM: 8
3	6	SW	12	CMF	22-3006	SUB: 6; LOC: SW 29th St – S Portland to S Western Ave; QUAD: SW ; LM: 12

5	2	SE	12	CMF	22-5002	SUB: 2; LOC: SW 74th St/I-240 Svc Rd – S Western to S Eastern Ave; QUAD: SE; LM: 12
5	4	SE	12	CMF	22-5004	SUB: 4; LOC: S 44th St – S Western to S Eastern Ave; QUAD: SE; LM: 12
6	1	SE	39	CMF	22-6001	SUB: 1; LOC: S Shields Blvd – Reno Ave to SE 104th St; QUAD: SE; LM: 39
7	1	SE	6	CMF	22-7001	SUB: 1; LOC: Reno Ave/Johnny Bench Dr – Lincoln Blvd to Bryant PL; QUAD: SE; LM: 6
7	2	SE	26	CMF	22-7002	SUB: 2; LOC: S Eastern/American Indian Blvd – Reno S to City Limits; QUAD: SE; LM: 26
8	4	NE	10	Santa Fe	22-8004	SUB: 4; LOC: NE 36th St – I-35 Hwy to I-235 Hwy; QUAD: NE; LM: 10
9	3	NE	23	Santa Fe	22-9003	SUB: 3; LOC: Britton Rd – Waverly Ave to N Sooner Rd; QUAD: NE; LM: 23
10	1	NE	41	Santa Fe	22-10001	SUB: 1; LOC: N Western Ave – NW 50th St to NW 206th St; QUAD: NE; LM: 41
10	3	NE	24	Santa Fe	22-10003	SUB: 3; LOC: E Memorial Rd – N Western Ave to I-35 Hwy; QUAD: NE; LM: 24
12	1	NW	12	Santa Fe	22-12001	SUB: 1; LOC: NW 63rd St – N Western to N Grove Ave; QUAD: NW; LM: 12
12	2	NW	12	Santa Fe	22-12002	SUB: 2; LOC: W Wilshire Blvd – NW Expressway to N Morgan Rd; QUAD: NW; LM: 12
13	1	W	32	CMF	22-13001	SUB: 1; LOC: N Classen Blvd – W Reno to NW 63rd St; QUAD: W; LM: 32
13	4	W	18	CMF	22-13004	SUB: 4; LOC: NW Expressway – Hefner Parkway to Classen Cir; QUAD: W; LM: 18
13	5	W	6	CMF	22-13005	SUB: 5; LOC: Baptist Medical Center – 3300 NW Expressway; QUAD: W; LM: 6
13	7	W	24	CMF	22-13007	SUB: 7; LOC: N May Ave – NW 63rd St to W Reno Ave; QUAD: W; LM: 24
14	1	W	40	CMF	22-14001	SUB: 1; LOC: W Reno Ave – N Western to N Czech Hall Rd; QUAD: W; LM: 40
14	4	W	8	CMF	22-14004	SUB: 4; LOC: N Council Rd – W Reno to NW 23rd St; QUAD: W; LM: 8
16	2	DT	6	CMF	22-16002	SUB: 2; LOC: N Walker Ave – W Reno Ave to NW 13th St; QUAD: DT; LM: 6
16	4	DT	8	CMF	22-16004	SUB: 4; LOC: Robinson Ave – HWY I-40 to NW 13th St; QUAD: DT; LM: 8
17	4	DT	5	CMF	22-17004	SUB: 4; LOC: NW 5th St – N Western to N Walnut Ave; QUAD: DT; LM: 5
17	5	DT	5	CMF	22-17005	SUB: 5; LOC: NW 6th St – N Western to N Walnut Ave; QUAD: DT; LM: 5
17	6	DT	4	CMF	22-17006	SUB: 6; LOC: NW 10th St – N Western to N Broadway Ave; QUAD: DT; LM: 4
17	7	DT	4	CMF	22-17007	SUB: 7; LOC: Saint Anthony Hospital – 1000 NW 10th St; QUAD: DT; LM: 4
17	8	DT	2	CMF	22-17008	SUB: 8; LOC: EMSA Head Quarters – 515 NW 10th St; QUAD: DT; LM: 2

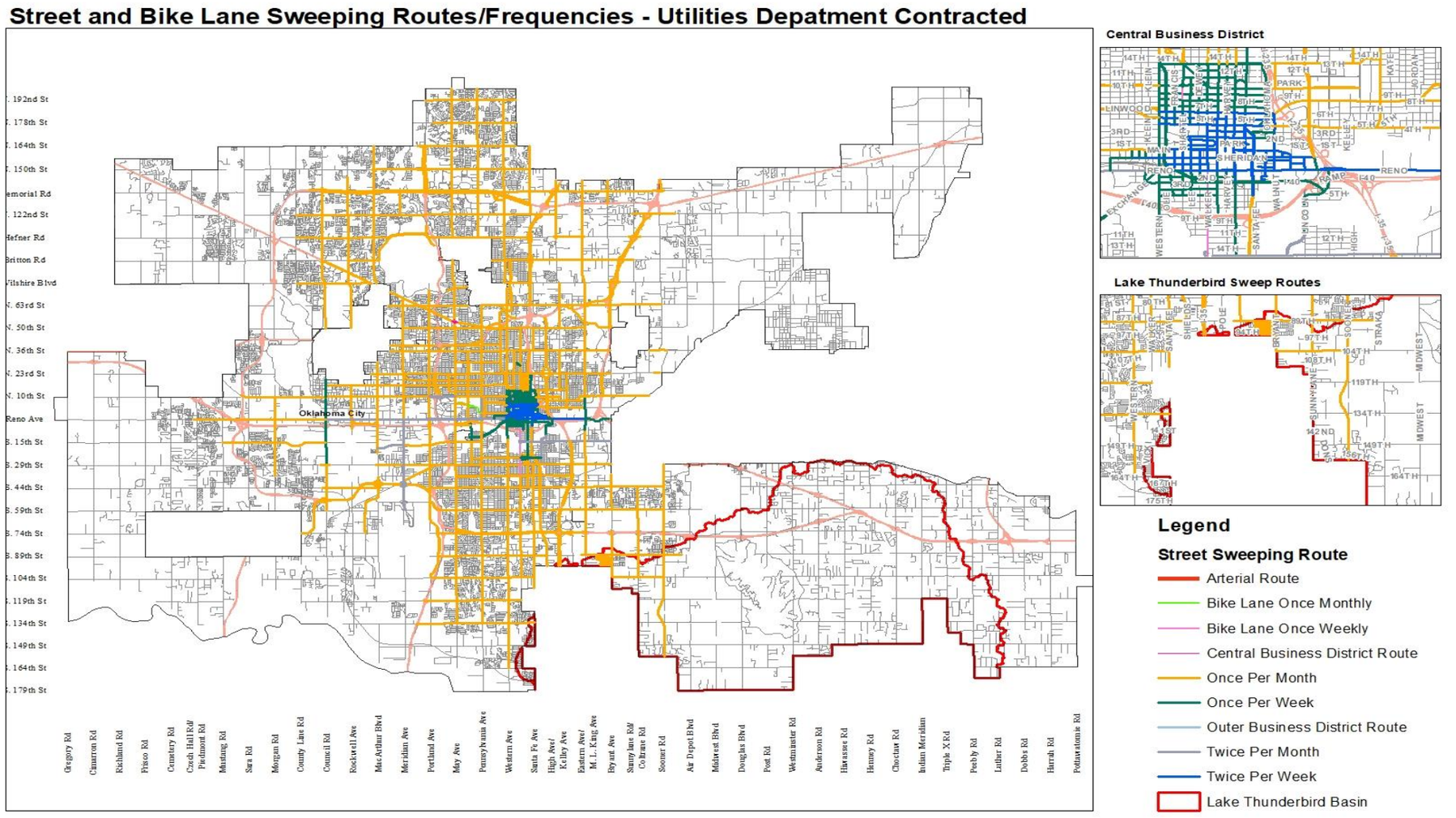
17	11	DT	6	CMF	22-17011	SUB: 11; LOC: NW 13th St – N Western to N Broadway Ave; QUAD: DT; LM: 6
18	2	DT	4	CMF	21-18002	SUB: 2; LOC: Lincoln Blvd – E Reno Ave to NE 4th St; QUAD: DT; LM: 4
19	1	DT	6	CMF	22-19001	SUB: 1; LOC: NE 4th St – N Lincoln Blvd to MLK; QUAD: DT; LM: 6
18	8	DT	4	CMF	21-18008	SUB: 8; LOC: Harrison Ave – NE 4th St to N Lincoln Blvd; QUAD: DT; LM: 4
19	2	DT	6	CMF	22-19002	SUB: 2; LOC: NE 8th St – N Lincoln to JW Simmons Blvd; QUAD: DT; LM: 6
19	4	DT	12	CMF	22-19004	SUB: 4; LOC: N Lottie Ave – NE 4th to NE 23rd St; QUAD: DT; LM: 12
19	5	DT	4	CMF	22-19005	SUB: 5; LOC: NE 13th St – N Lottie to N Lincoln Blvd; QUAD: DT; LM: 4
14	3	W	8	CMF	22-14003	SUB: 3; LOC: N Mustang Rd – W Reno to NW 10th St; QUAD: W; LM: 8
8	2	NE	2	Santa Fe	22-8002	SUB: 2; LOC: NC OK Dialysis - 200 NE 50th St; QUAD: NE; LM: 0
21	3	SW	36	CMF	22-21003	SUB: 3; LOC: S Penn Ave – Reno Ave to SW 134th St; QUAD: SW; LM: 36
21	1	SW	28	CMF	22-21001	SUB: 1; LOC: S PORTLAND – W RENO AVE TO SW 104th ST; QUAD: SW; LM: 28
21	4	SW	8	CMF	22-21004	SUB: 4; LOC: SW 29th St – S Portland Ave to S Council Rd; QUAD: SW; LM: 8
21	5	SW	4	CMF	22-21005	SUB: 5; LOC: S MacArthur Blvd – SW 74th St to SW 104th St; QUAD: SW; LM: 4
1	3	SW	12	CMF	22-1003	SUB: 3; LOC: Regina Ave – SW 54th to SW 74th St; QUAD: SW; LM: 12
21	6	SW	24	CMF	22-21006	SUB: 6; LOC: SW 104th St - S MacArthur to S Santa Fe Ave; QUAD: SW; LM: 24
21	7	SW	8	CMF	22-21007	SUB: 7; LOC: SW 74th St - S MacArthur to S Council Rd; QUAD: SW; LM: 8
21	8	SW	8	CMF	22-21008	SUB: 8; LOC: Newcastle Rd - SW 29th to S Council Rd; QUAD: SW; LM: 8
22	1	SE	28	CMF	22-22001	SUB: 1; LOC: S WALKER AVE – W RENO AVE TO SW 104TH ST; QUAD: SE; LM: 28
22	3	SE	12	CMF	22-22003	SUB: 3; LOC: S ROBINSON AVE – SW 5TH ST TO SW 44TH ST; QUAD: SE; LM: 12
22	4	SE	12	CMF	22-22004	SUB: 4; LOC: S SANTA FE – SW 59TH ST TO SW 104TH ST; QUAD: SE; LM: 12
22	5	SE	4	CMF	22-22005	SUB: 5; LOC: S LINCOLN \S CENTRAL – E RENO AVE TO SE 15TH ST; QUAD: SE; LM: 4
22	6	SE	16	CMF	22-22006	SUB: 6; LOC: S 59TH ST – S WESTERN AVE TO S AIR DEPOT BLVD; QUAD: SE; LM: 16
22	7	SE	8	CMF	22-22007	SUB: 7; LOC: S BRYANT AVE – SE 44TH ST TO SE 104TH ST; QUAD: SE; LM: 8
22	8	SE	4	CMF	22-22008	SUB: 8; LOC: SE 44TH ST – S SUNNYLANE RD TO SOONER RD; QUAD: SE; LM: 4

22	9	SE	24	CMF	22-22009	SUB: 9; LOC: I-35 HWY SERVICE RD'S – SE 15TH ST TO SE 104TH ST; QUAD: SE; LM: 24
22	10	SE	8	CMF	22-22010	SUB: 10; LOC: S SUNNYLANE RD – SE 44TH ST TO I-240 HWY; QUAD: SE; LM: 8
22	12	SE	4	CMF	22-22012	SUB: 12; LOC: S AIR DEPOT BLVD – SE 59TH ST TO I-240 HWY; QUAD: SE; LM: 4
22	13	SE	16	CMF	22-22013	SUB: 13; LOC: I-240 SERVICE RD'S – S EASTERN TO S AIR DEPOT; QUAD: SE; LM: 16
23	1	NE	4	CMF	22-23001	SUB: 1; LOC: N WESTERN AVE – W RENO AVE TO NW 13TH ST; QUAD: NE; LM: 4
23	2	NE	2	CMF	22-23002	SUB: 2; LOC: NE 10th St - N Coltrane to N City Limits; QUAD: NE; LM: 2
23	3	NE	16	CMF	22-23003	SUB: 3; LOC: N Western Ave - NW 16th to NW 50th St; QUAD: NE; LM: 16
23	4	NE	4	CMF	22-23004	SUB: 4; LOC: NE 36TH St - N Western to I-235 HWY; QUAD: NE; LM: 4
23	5	NE	10	CMF	22-23005	SUB: 5; LOC: NE 50TH ST – MLK TO N WESTERN AVE; QUAD: NE; LM: 10
23	6	NE	22	CMF	22-23006	SUB: 6; LOC: N Kelley Ave - NE 13th to City Limits; QUAD: NE; LM: 22
23	7	NE	12	CMF	22-23007	SUB: 7; LOC: E Hefner Rd - N Kelley Ave to N Douglas Blvd; QUAD: NE; LM: 12
23	8	NE	6	CMF	22-23008	SUB: 8; LOC: NE 122nd St - I-35 HWY to N Eastern Ave: QUAD: NE; LM: 6
23	9	NE	10	CMF	22-23009	SUB: 9; LOC: N I-35 HWY Service Rds. - NE 122nd St to E Britton Rd; QUAD: NE; LM: 10
23	10	NE	10	CMF	22-23010	SUB: 10; LOC: E Wilshire Blvd - N Bryant Ave to N Western Ave; QUAD: NE; LM: 10
23	12	NE	8	CMF	22-23012	SUB: 12; LOC: N 122nd St - N Council Rd to N Kelley Ave; QUAD: NE; LM: 8
23	13	NE	32	CMF	22-23013	SUB: 13; LOC: N Santa Fe Ave - NW 122nd St to NW 150th St; QUAD: NE; LM: 32
23	14	NE	6	CMF	22-23014	SUB: 14; LOC: N Bryant Ave - NE 122nd St to City Limits; QUAD: NE; LM: 6
24	1	NW	20	CMF	22-24001	SUB: 1; LOC: N PENNSYLVANIA AVE – W RENO AVE TO NW 63RD; QUAD: NW; LM: 20
24	3	NW	20	CMF	22-24003	SUB: 3; LOC: N PORTLAND AVE – W RENO AVE TO NW 63RD ST; QUAD: NW; LM: 20
24	4	NW	24	CMF	22-24004	SUB: 4; LOC: N ROCKWELL AVE – NW 63rd ST TO W MEMORIAL RD; QUAD: NW; LM: 24
24	5	NW	14	CMF	22-24005	SUB: 5; LOC: NW 50TH – N GROVE AVE TO N PENNSYLVANIA AVE; QUAD: NW; LM: 14
25	1	W	30	CMF	22-25001	SUB: 1; LOC: NW 10TH ST – N WESTERN AVE TO N MUSTANG RD; QUAD: W; LM: 30
25	2	W	12	CMF	22-25002	SUB: 2; LOC: NW 36TH ST – N WESTERN AVE TO N ANN ARBOR; QUAD: W; LM: 12
25	3	W	8	CMF	22-25003	SUB: 3; LOC: N ROCKWELL AVE – I-40 HWY TO NW 16TH; QUAD: W; LM: 8

25	4	W	4	CMF	22-25004	SUB: 4; LOC: W RENO AVE – N CZECH HALL RD TO N CEMETERY RD; QUAD: W; LM: 4
25	5	W	12	CMF	22-25005	SUB: 5; LOC: CEMETERY RD – NW 10TH ST TO SW 59TH ST; QUAD: W; LM: 12
20	1	DT	7	CMF	22-20001	SUB: 1; LOC: Shartel Ave - SW 5th St to NW 13th St; QUAD: DT; LM: 7
20	2	DT	5	CMF	22-20002	SUB: 2; LOC: N HARVEY AVE – NW 13TH ST TO PARK AVE; QUAD: DT; LM: 5
20	3	DT	1.5	CMF	22-20003	SUB: 3; LOC: NW 7TH ST – N SHARTEL TO N HUDSON AVE; QUAD: DT; LM: 1.5
20	4	DT	1.5	CMF	22-20004	SUB: 4; LOC: NW 7TH ST – N HARVEY TO N BROADWAY AVE; QUAD: DT; LM: 1.5
20	5	DT	3	CMF	22-20005	SUB: 5; LOC: MAIN ST – N WESTERN TO N HUDSON; QUAD: DT; LM: 3
20	6	DT	3	CMF	22-20006	SUB: 6; LOC: MAIN ST – N ROBINSON TO EK GAYLORD; QUAD: DT; LM: 3
20	7	DT	1	CMF	22-20007	SUB: 7; LOC: COLCORD DR – SHARTEL AVE TO HUDSON AVE; QUAD: DT; LM: 1
20	8	DT	1	CMF	22-20008	SUB: 8; LOC: COUCH DR – SHARTEL AVE TO HUDSON AVE; QUAD: DT; LM: 1
20	9	DT	4	CMF	22-20009	SUB: 9; LOC: Dean A McGee - N Walker Ave to EK Gaylord; QUAD: DT; LM: 4
20	10	DT	1	CMF	22-20010	SUB: 10; LOC: Robert S Kerr Ave - Shartel to EK Gaylord; QUAD: DT; LM: 1
20	11	DT	1	CMF	22-20011	SUB: 11; LOC: Park Ave - Hudson Ave to Broadway; QUAD: DT; LM: 1
20	12	DT	1	CMF	22-20012	SUB: 12; LOC: Broadway Ave - NW 4th St to W Sheridan; QUAD: DT; LM: 1
17	9	DT	10	CMF	22-17009	SUB: 9; LOC: NW 11th St - N Dewey Ave to N Broadway Ave; QUAD: DT; LM: 10
17	10	DT	1	CMF	22-17010	SUB: 10; LOC: N Dewey Ave - NW 10th to NW 11th St; QUAD: DT; LM: 1
24	2	NW	20	CMF	22-24002	SUB: 2; LOC: N PENNSYLVANIA AVE – W HEFNER TO CITY LIMITS; QUAD: NW; LM: 20
21	2	SW	8	CMF	22-21002	SUB: 2; LOC: S Exchange Ave - S Agnew Ave to S Western Ave; QUAD: SW; LM: 8
22	2	SE	4	CMF	21-22002	SUB: 2; LOC: SW 25th St - S Walker Ave to Shields Blvd; QUAD: SE; LM: 4
2	6	SW	3	CMF	22-2006	SUB: 6; LOC: WB I-40 Svc Road - WB I-40 Exit 148 to S May Ave; QUAD: SW; LM: 3;
2	5	SW	3	CMF	22-2005	SUB: 5; LOC: EB I-40 Svc Road - S May Ave to EB I-40; QUAD: SW; LM: 3;
11	1	NW	30	CMF	22-11001	SUB: 1; LOC: NW Expressway - N MacArthur Blvd to Morgan Rd; QUAD: NW; LM 30;
7	203	NW	8	CMF	22-11002	SUB: 203; LOC: N May Ave - NW 63rd St to W Britton Rd; QUAD NW; LM 8;
11	3	NW	28	CMF	22-11003	SUB: 3; LOC: N May Ave - W Hefner Rd to NW 206th ST; QUAD: NW; LM: 28;

11	4	NW	28	CMF	22-11004	SUB: 4; LOC: W Memorial Rd - N Council Rd to N Western Ave; QUAD: NW; LM: 28;
11	5	NW	4	CMF	22-11005	SUB: 5; LOC: Mercy Hospital - 4300 W Memorial Rd; QUAD: NW; LM: 4;
11	6	NW	6	CMF	22-11006	SUB: 6; LOC: NW 164th St - N Portland Ave - N Western Ave; QUAD: NW; QUAD: NW; LM: 6;
13	2	W	36	CMF	22-13002	SUB: 2; LOC: NW Expressway - N MacArthur to Classen Cir; QUAD: W; LM: 36;
15	1	OKBVD	30	CMF	22-15001	SUB: 1; LOC: OKC BLVD – I-40 EXIT 148B TO I-235 EXIT 1C/I-35 EXIT 125C; QUAD: OKC BLVD; LM:
16	3	DT	10	CMF	22-16003	SUB: 3; LOC: Hudson Ave - NW 13th St to SW 7th St; QUAD: DT; LM: 10;
23	11	NE	12	CMF	22-23011	SUB: 11; LOC: BROADWAY EXT SERVICE RD'S – NE 63RD ST TO NW 122nd: QUAD: NE; LM: 12
13	3	W	2	CMF	22-13003	SUB: 3; LOC: NW GRAND BLVD – NW 63RD ST TO N WESTERN AVE; QUAD: W; LM: 2
19	10	DT	14	CMF	22-19010	SUB: 10; LOC: N 23RD ST – N WESTERN TO I-35 HWY; QUAD: DT; LM: 14
7	4	SE	12	CMF	22-7004	SUB: 4; LOC: SOONER RD -SE 89TH ST TO SE 44TH ST; QUAD: SE; LM: 12
7	3	SE	0.5	CMF	22-7003	SUB: 3; LOC: SE 77TH ST – MERCY SOUTH PARKING LOT TO SOONER; QUAD:SE;LM: 0.5

Appendix N: Oklahoma Street Sweeping Route Map



Street Name	Sweep Frequency	Length (ft.)
	1PM	1897
AIRPORT RD	1PM	19739
ALTADENA AVE	1PM	204
BELLE ISLE BLVD	1PM	3230
BELLE ISLE BLVD MEDIAN	1PM	37
BELLFOUNTAINE DR	1PM	63
BRANDON PL	1PM	451
BROADWAY EXTENSION	1PM	51881
BROCK DR	1PM	307
BROOKSIDE DR	1PM	48
CLASSEN CIR	1PM	3583
CLASSEN DR	1PM	3020
CLEARBROOK RD	1PM	450
E BRITTON RD	1PM	20479
E HEFNER RD	1PM	5491
E I-240 SERVICE RD	1PM	7460
E I-44 SERVICE RD	1PM	8675
E MEMORIAL RD	1PM	26732
E WILSHIRE BLVD	1PM	5028
E WILSHIRE BLVD MEDIAN	1PM	129
GENERAL PERSHING BLVD	1PM	11338
GLADE AVE	1PM	58
HARRISON AVE	1PM	1327
HIGHLAND PARK BLVD	1PM	448
J W SIMMONS BLVD	1PM	2922
J W SIMMONS BLVD MEDIAN	1PM	108
LINWOOD BLVD	1PM	9634
MARTIN PARK BLVD	1PM	404

Street Name	Sweep Frequency	Length (ft.)
N ANN ARBOR AVE	1PM	73
N BLACKWELDER AVE	1PM	48
N BRAUER AVE	1PM	51
N CLASSEN BLVD	1PM	62882
N CLASSEN BLVD MEDIAN	1PM	246
N COUNCIL RD	1PM	31249
N DOUGLAS AVE	1PM	43
N DREXEL BLVD	1PM	4017
N EASTERN AVE	1PM	23702
N ELLISON AVE	1PM	48
N GRAND BLVD	1PM	11470
N HARVARD AVE	1PM	105
N I-44 SERVICE RD	1PM	1387
N INDIANA AVE	1PM	42
N KELLEY AVE	1PM	11886
N KENTUCKY AVE	1PM	44
N KLEIN AVE	1PM	40
N LIBBY AVE	1PM	55
N LOTTIE AVE	1PM	7968
N MACARTHUR BLVD	1PM	36677
N MAY AVE	1PM	73465
N MAY AVE MEDIAN	1PM	68
N MCKINLEY AVE	1PM	43
N MERIDIAN AVE	1PM	33039
N MISSOURI AVE	1PM	49
N MORGAN RD	1PM	4461
N PENNSYLVANIA AVE	1PM	58692
N PENNSYLVANIA AVE MEDIAN	1PM	168

Street Name	Sweep Frequency	Length (ft.)
N PORTLAND AVE	1PM	30248
N ROCKWELL AVE	1PM	39456
N SANTA FE AVE	1PM	21235
N SHARTEL AVE	1PM	11245
N SHARTEL AVE MEDIAN	1PM	130
N ST CLAIR AVE	1PM	61
N TULSA AVE	1PM	542
N VILLA AVE	1PM	16923
N VIRGINIA AVE	1PM	8848
N WALKER AVE	1PM	14579
N WALNUT AVE	1PM	2851
N WESTERN AVE	1PM	61916
N YOUNGS BLVD	1PM	213
NE 10TH ST	1PM	20393
NE 122ND ST	1PM	8633
NE 13TH ST	1PM	6552
NE 23RD ST	1PM	17536
NE 23RD ST MEDIAN	1PM	39
NE 36TH ST	1PM	19529
NE 4TH ST	1PM	10049
NE 50TH ST	1PM	12338
NE 63RD ST	1PM	15869
NE 71ST ST	1PM	531
NE 8TH ST	1PM	8550
NE GRAND BLVD	1PM	14797
NEWCASTLE RD	1PM	7630
NORTHWEST PASSAGE	1PM	55
NW 11TH ST	1PM	40

Street Name	Sweep Frequency	Length (ft.)
NW 122ND ST	1PM	43124
NW 12TH ST	1PM	6524
NW 14TH ST	1PM	32
NW 150TH ST	1PM	15868
NW 164TH ST	1PM	12985
NW 16TH ST	1PM	37097
NW 178TH ST	1PM	13171
NW 17TH ST	1PM	88
NW 18TH ST	1PM	53
NW 19TH ST	1PM	17719
NW 1ST ST	1PM	52
NW 20TH ST	1PM	42
NW 21ST ST	1PM	44
NW 22ND ST	1PM	54
NW 24TH ST	1PM	73
NW 25TH ST	1PM	68
NW 26TH ST	1PM	66
NW 27TH ST	1PM	61
NW 28TH ST	1PM	54
NW 29TH ST	1PM	53
NW 30TH ST	1PM	9359
NW 31ST ST	1PM	57
NW 32ND ST	1PM	57
NW 33RD ST	1PM	58
NW 34TH ST	1PM	60
NW 35TH ST	1PM	59
NW 36TH ST	1PM	29428
NW 37TH ST	1PM	63

Street Name	Sweep Frequency	Length (ft.)
NW 38TH ST	1PM	65
NW 39TH ST	1PM	33645
NW 39TH ST MEDIAN	1PM	543
NW 3RD ST	1PM	52
NW 40TH ST	1PM	2265
NW 41ST ST	1PM	64
NW 42ND ST	1PM	66
NW 43RD ST	1PM	66
NW 44TH ST	1PM	64
NW 45TH ST	1PM	62
NW 46TH ST	1PM	62
NW 47TH ST	1PM	49
NW 4TH DR	1PM	49
NW 4TH ST	1PM	53
NW 50TH ST	1PM	22590
NW 51ST ST	1PM	55
NW 63RD ST	1PM	26989
NW 7TH ST	1PM	46
NW 8TH ST	1PM	54
NW 9TH ST	1PM	50
NW EXPRESSWAY	1PM	71310
NW EXPRESSWAY MEDIAN	1PM	1148
NW GRAND BLVD	1PM	8836
PAWNEE DR	1PM	454
REGINA AVE	1PM	14961
REMINGTON PL	1PM	3612
S AGNEW AVE MEDIAN	1PM	132
S BLACKWELDER AVE	1PM	84

Street Name	Sweep Frequency	Length (ft.)
S BRYANT AVE	1PM	8120
S CENTRAL AVE	1PM	5283
S DOUGLAS AVE	1PM	177
S EASTERN AVE MEDIAN	1PM	41
S HARVEY AVE	1PM	1133
S I-35 SERVICE RD	1PM	40305
S INDIANA AVE	1PM	145
S LINN AVE	1PM	151
S MACARTHUR BLVD	1PM	13998
S MAY AVE	1PM	48467
S MCKINLEY AVE	1PM	84
S MILLER AVE	1PM	157
S MORGAN RD	1PM	6167
S PENNSYLVANIA AVE	1PM	48386
S PORTLAND AVE	1PM	19898
S PROSPECT AVE	1PM	1032
S ROCKWELL AVE	1PM	456
S ROSS AVE	1PM	205
S SANTA FE AVE	1PM	28787
S SHIELDS BLVD	1PM	66331
S SHIELDS BLVD MEDIAN	1PM	513
S SOONER RD	1PM	22286
S SUNNYLANE RD	1PM	11118
S VILLA AVE	1PM	2008
S VIRGINIA AVE	1PM	1102
S WALKER AVE	1PM	27311
S WESTERN AVE	1PM	42515
S YOUNGS BLVD	1PM	151

Street Name	Sweep Frequency	Length (ft.)
SE 15TH ST	1PM	15872
SE 23RD ST	1PM	1681
SE 25TH ST	1PM	55
SE 27TH ST	1PM	58
SE 28TH ST	1PM	59
SE 29TH ST	1PM	15876
SE 30TH ST	1PM	57
SE 31ST ST	1PM	56
SE 32ND ST	1PM	52
SE 33RD ST	1PM	51
SE 34TH ST	1PM	52
SE 35TH ST	1PM	53
SE 37TH ST	1PM	55
SE 38TH ST	1PM	53
SE 39TH ST	1PM	54
SE 40TH ST	1PM	51
SE 41ST ST	1PM	51
SE 42ND ST	1PM	53
SE 43RD ST	1PM	51
SE 44TH ST	1PM	26506
SE 45TH ST	1PM	63
SE 46TH ST	1PM	63
SE 47TH ST	1PM	63
SE 49TH ST	1PM	61
SE 50TH ST	1PM	62
SE 51ST ST	1PM	80
SE 54TH ST	1PM	63
SE 55TH ST	1PM	63

Street Name	Sweep Frequency	Length (ft.)
SE 57TH ST	1PM	67
SE 58TH ST	1PM	61
SE 59TH ST	1PM	26427
SE 62ND ST	1PM	64
SE 64TH ST	1PM	62
SE 66TH ST	1PM	64
SE 79TH ST	1PM	66
SE 89TH ST	1PM	2654
SE GRAND BLVD	1PM	12910
SILVER CROSSING	1PM	117
SW 104TH ST	1PM	20538
SW 119TH ST	1PM	19966
SW 134TH ST	1PM	24069
SW 15TH ST	1PM	24167
SW 23RD ST	1PM	2664
SW 25TH ST	1PM	9889
SW 29TH ST	1PM	28359
SW 3RD ST	1PM	5609
SW 44TH ST	1PM	32913
SW 54TH ST	1PM	4928
SW 54TH ST MEDIAN	1PM	60
SW 59TH ST	1PM	21024
SW 74TH ST	1PM	5467
SW 89TH ST	1PM	18775
SW GRAND BLVD	1PM	31345
SW GRAND BLVD MEDIAN	1PM	590
W BRITTON RD	1PM	8551
W HEFNER RD	1PM	43239

Street Name	Sweep Frequency	Length (ft.)
W I-240 SERVICE RD	1PM	31957
W I-44 SERVICE RD	1PM	1573
W MAIN ST	1PM	5575
W MEMORIAL RD	1PM	79609
W WILSHIRE BLVD	1PM	14784
WILLOW SPRINGS AVE	1PM	95
152 HWY OFFRAMP	1PM	2264
152 HWY ONRAMP	1PM	1709
AIRPORT RD ONRAMP	1PM	1863
AIRPORT RD OFFRAMP	1PM	1830
S AGNEW AVE	1PM	15862
N ROBINSON AVE	1PM	442
N ROBINSON AVE	1PM	372
N ROBINSON AVE	1PM	363
N ROBINSON AVE	1PM	353
N ROBINSON AVE	1PM	365
N ROBINSON AVE	1PM	343
N ROBINSON AVE	1PM	311
N ROBINSON AVE	1PM	328
N ROBINSON AVE	1PM	344
N ROBINSON AVE	1PM	373
N ROBINSON AVE	1PM	142
N ROBINSON AVE	1PM	382
N ROBINSON AVE	1PM	378
N ROBINSON AVE	1PM	383
N ROBINSON AVE	1PM	393
N ROBINSON AVE	1PM	94
N ROBINSON AVE	1PM	119

Street Name	Sweep Frequency	Length (ft.)
N ROBINSON AVE	1PM	151
N ROBINSON AVE	1PM	389
N ROBINSON AVE	1PM	389
N ROBINSON AVE	1PM	373
N ROBINSON AVE	1PM	373
N ROBINSON AVE	1PM	373
N ROBINSON AVE	1PM	373
N ROBINSON AVE	1PM	385
N ROBINSON AVE	1PM	384
N ROBINSON AVE	1PM	387
N ROBINSON AVE	1PM	387
N ROBINSON AVE	1PM	418
N ROBINSON AVE	1PM	369
N ROBINSON AVE	1PM	369
N ROBINSON AVE	1PM	365
N ROBINSON AVE	1PM	365
N ROBINSON AVE	1PM	232
N ROBINSON AVE	1PM	372
N ROBINSON AVE	1PM	380
N ROBINSON AVE	1PM	382
N ROBINSON AVE	1PM	379
N ROBINSON AVE	1PM	379
N HARVEY AVE	1PM	3970
N HUDSON AVE	1PM	3958
S COUNCIL RD	1PM	10563
S EASTERN AVE	1PM	13195
S EASTERN AVE	1PM	3142
S EASTERN AVE	1PM	10029

Street Name	Sweep Frequency	Length (ft.)
S ROBINSON AVE	1PM	6406
NE 23RD ST	1PM	2598
NW 10TH ST	1PM	11986
NW 10TH ST	1PM	5727
NW 10TH ST	1PM	20466
NW 10TH ST	1PM	4672
NW 10TH ST	1PM	1195
NW 10TH ST	1PM	579
NW 10TH ST	1PM	4171
NW 10TH ST	1PM	4178
	1PM	1987
	1PM	3587
	1PM	2578
	1PM	2590
	1PM	581
	1PM	633
	1PM	778
	1PM	725
OLD LAKESHORE DR	1PM	2054
N LINCOLN BLVD	1PM	23155
N LINCOLN BLVD	1PM	23151
N MARTIN LUTHER KING AVE	1PM	4816
N MARTIN LUTHER KING AVE	1PM	26211
W RENO AVE	1PM	32534
N BRYANT AVE	1PM	5660
N PORTLAND AVE	1PM	1903
W LAKE HEFNER DR	1PM	16191
N I-35 SERVICE RD	1PM	835

Street Name	Sweep Frequency	Length (ft.)
N I-35 SERVICE RD	1PM	4342
N I-35 SERVICE RD	1PM	20622
N BRYANT AVE	1PM	1287
N BRYANT AVE	1PM	40
N BRYANT AVE	1PM	1247
N I-35 SERVICE RD	1PM	17933
N I-35 SERVICE RD	1PM	2674
N BRYANT AVE	1PM	7948
NE 23RD ST OFFRAMP	1PM	784
N LINCOLN BLVD OFFRAMP	1PM	965
NE 23RD ST OFFRAMP	1PM	1040
NE 23RD ST ONRAMP	1PM	992
NW 23RD ST	1PM	6968
S LINCOLN BLVD	1PM	363
S LINCOLN BLVD	1PM	647
S LINCOLN BLVD	1PM	82
S LINCOLN BLVD	1PM	702
S LINCOLN BLVD	1PM	1315
S LINCOLN BLVD	1PM	1726
S CENTRAL AVE	1PM	474
S CENTRAL AVE	1PM	519
S CENTRAL AVE	1PM	549
S CENTRAL AVE	1PM	452
S CENTRAL AVE	1PM	325
S CENTRAL AVE	1PM	500
S CENTRAL AVE	1PM	778
CLASSEN DR	1PW	1867
EXCHANGE AVE	1PW	13406

Street Name	Sweep Frequency	Length (ft.)
EXCHANGE AVE MEDIAN	1PW	284
HARRISON AVE	1PW	1178
N BROADWAY AVE	1PW	3049
N BROADWAY CIR	1PW	922
N CLASSEN BLVD	1PW	12166
N DEWEY AVE	1PW	3195
N FRANCIS AVE	1PW	2403
N HARVEY AVE	1PW	3032
N HUDSON AVE	1PW	3018
N LEE AVE	1PW	2877
N OKLAHOMA AVE	1PW	4680
N ROBINSON AVE	1PW	3038
N SHARTEL AVE	1PW	3244
N WALKER AVE	1PW	3189
N WESTERN AVE	1PW	11338
NE 10TH ST	1PW	456
NE 13TH ST	1PW	522
NE 2ND ST	1PW	965
NE 3RD ST	1PW	816
NE 7TH ST	1PW	469
NE 8TH ST	1PW	431
NE 9TH ST	1PW	467
NW 10TH ST	1PW	5961
NW 11TH ST	1PW	2857
NW 12TH ST	1PW	2581
NW 13TH ST	1PW	6537
NW 3RD ST	1PW	909
NW 7TH ST	1PW	4903

Street Name	Sweep Frequency	Length (ft.)
NW 8TH ST	1PW	5381
NW 9TH ST	1PW	5383
ROBERT S KERR AVE	1PW	1063
S AGNEW AVE	1PW	2285
S BROADWAY AVE	1PW	772
S CLASSEN BLVD	1PW	1720
S DEWEY AVE	1PW	388
S HARVEY AVE	1PW	3085
S HUDSON AVE	1PW	3093
S KLEIN AVE	1PW	743
S LEE AVE	1PW	1543
S SHARTEL AVE	1PW	1542
S WALKER AVE	1PW	9445
SE 25TH ST	1PW	1693
SW 25TH ST	1PW	2658
SW 26TH ST	1PW	1577
SW 2ND ST	1PW	4114
SW 3RD ST	1PW	5481
SW 4TH ST	1PW	5079
SW 5TH ST	1PW	5067
SW 3RD ST	1PW	948
S AGNEW AVE	1PW	1513
S AGNEW AVE	1PW	1619
S AGNEW AVE	1PW	1636
N BROADWAY AVE	1PW	2736
N BROADWAY AVE	1PW	357
N BROADWAY AVE	1PW	166
N BROADWAY AVE	1PW	793

Street Name	Sweep Frequency	Length (ft.)
N BROADWAY AVE	1PW	315
N BROADWAY AVE	1PW	216
N BROADWAY AVE	1PW	176
N BROADWAY AVE	1PW	63
NW 22ND ST	1PW	111
N BROADWAY AVE	1PW	128
N BROADWAY AVE	1PW	126
N BROADWAY AVE	1PW	152
N COUNCIL RD	1PW	20916
S LINCOLN BLVD	1PW	787
S LINCOLN BLVD	1PW	788
N MARTIN LUTHER KING AVE	1PW	7826
E RENO AVE	1PW	5110
S ROBINSON AVE	1PW	8646
N WALKER AVE	1PW	120
S CLASSEN BLVD	1PW	1566
AIRPORT RD OFFRAMP	2PM	1888
AIRPORT RD ONRAMP	2PM	1510
AIRPORT RD ONRAMP	2PM	1881
AIRPORT RD OFFRAMP	2PM	1779
NE 23RD ST	2PM	1795
NW 10TH ST	2PM	5262
W RENO AVE	2PM	336
W RENO AVE	2PM	120
W RENO AVE	2PM	655
W RENO AVE	2PM	166
W RENO AVE	2PM	369
W RENO AVE	2PM	640

Street Name	Sweep Frequency	Length (ft.)
W RENO AVE	2PM	655
W RENO AVE MEDIAN	2PM	53
W RENO AVE MEDIAN	2PM	54
W RENO AVE MEDIAN	2PM	73
W RENO AVE MEDIAN	2PM	99
W RENO AVE MEDIAN	2PM	102
W RENO AVE MEDIAN	2PM	99
W RENO AVE MEDIAN	2PM	100
W RENO AVE	2PM	774
W RENO AVE	2PM	1089
W RENO AVE	2PM	337
W RENO AVE MEDIAN	2PM	99
W RENO AVE	2PM	53
W RENO AVE	2PM	51
W RENO AVE	2PM	586
W RENO AVE MEDIAN	2PM	99
W RENO AVE	2PM	510
W RENO AVE	2PM	585
W RENO AVE MEDIAN	2PM	52
W RENO AVE	2PM	43
W RENO AVE	2PM	43
W RENO AVE	2PM	220
W RENO AVE	2PM	338
W RENO AVE	2PM	638
W RENO AVE	2PM	639
W RENO AVE MEDIAN	2PM	53
W RENO AVE	2PM	340
W RENO AVE	2PM	326

Street Name	Sweep Frequency	Length (ft.)
W RENO AVE	2PM	328
W RENO AVE MEDIAN	2PM	57
W RENO AVE MEDIAN	2PM	54
W RENO AVE	2PM	55
W RENO AVE	2PM	400
W RENO AVE	2PM	401
W RENO AVE	2PM	261
W RENO AVE	2PM	263
W RENO AVE	2PM	510
W RENO AVE	2PM	997
W RENO AVE	2PM	511
W RENO AVE	2PM	943
W RENO AVE	2PM	607
W RENO AVE	2PM	552
W RENO AVE	2PM	355
W RENO AVE	2PM	273
W RENO AVE	2PM	351
W RENO AVE	2PM	272
W RENO AVE MEDIAN	2PM	53
W RENO AVE	2PM	962
W RENO AVE	2PM	414
W RENO AVE	2PM	195
W RENO AVE	2PM	492
W RENO AVE	2PM	1368
W RENO AVE	2PM	484
W RENO AVE	2PM	1402
W RENO AVE MEDIAN	2PM	153
W RENO AVE	2PM	1400

Street Name	Sweep Frequency	Length (ft.)
W RENO AVE MEDIAN	2PM	146
W RENO AVE MEDIAN	2PM	100
W RENO AVE MEDIAN	2PM	95
W RENO AVE	2PM	566
W RENO AVE	2PM	398
W RENO AVE	2PM	399
W RENO AVE	2PM	563
W RENO AVE	2PM	1325
W RENO AVE	2PM	288
W RENO AVE	2PM	980
W RENO AVE	2PM	600
W RENO AVE	2PM	600
W RENO AVE	2PM	981
W RENO AVE MEDIAN	2PM	101
W RENO AVE	2PM	338
W RENO AVE	2PM	216
W RENO AVE	2PM	771
W RENO AVE	2PM	491
W RENO AVE	2PM	666
W RENO AVE	2PM	665
W RENO AVE	2PM	674
W RENO AVE	2PM	969
W RENO AVE	2PM	599
W RENO AVE	2PM	597
W RENO AVE	2PM	851
W RENO AVE	2PM	848
W RENO AVE	2PM	712
W RENO AVE	2PM	500

Street Name	Sweep Frequency	Length (ft.)
W RENO AVE MEDIAN	2PM	103
W RENO AVE MEDIAN	2PM	101
W RENO AVE MEDIAN	2PM	98
W RENO AVE MEDIAN	2PM	101
W RENO AVE	2PM	574
W RENO AVE	2PM	691
W RENO AVE	2PM	665
W RENO AVE MEDIAN	2PM	101
W RENO AVE	2PM	632
W RENO AVE	2PM	633
W RENO AVE	2PM	781
S VERMONT AVE	2PM	101
W RENO AVE	2PM	508
W RENO AVE	2PM	508
W RENO AVE	2PM	599
W RENO AVE	2PM	1312
W RENO AVE MEDIAN	2PM	99
W RENO AVE MEDIAN	2PM	99
W RENO AVE MEDIAN	2PM	102
W RENO AVE MEDIAN	2PM	104
W RENO AVE	2PM	485
W RENO AVE	2PM	472
W RENO AVE	2PM	1159
W RENO AVE	2PM	1159
S GREENFIELD CENTER DR	2PM	102
W RENO AVE	2PM	1411
W RENO AVE	2PM	482
W RENO AVE	2PM	1411

Street Name	Sweep Frequency	Length (ft.)
W RENO AVE	2PM	481
W RENO AVE MEDIAN	2PM	99
W RENO AVE MEDIAN	2PM	98
W RENO AVE	2PM	726
W RENO AVE	2PM	501
W RENO AVE	2PM	729
W RENO AVE	2PM	884
W RENO AVE	2PM	629
W RENO AVE	2PM	51
W RENO AVE	2PM	511
W RENO AVE	2PM	50
W RENO AVE	2PM	511
W RENO AVE	2PM	444
W RENO AVE	2PM	447
W RENO AVE	2PM	632
W RENO AVE	2PM	883
W RENO AVE	2PM	1120
W RENO AVE	2PM	60
W RENO AVE	2PM	471
W RENO AVE	2PM	560
W RENO AVE	2PM	559
W RENO AVE	2PM	61
W RENO AVE	2PM	58
W RENO AVE	2PM	465
W RENO AVE	2PM	57
W RENO AVE	2PM	466
W RENO AVE	2PM	183
W RENO AVE	2PM	757

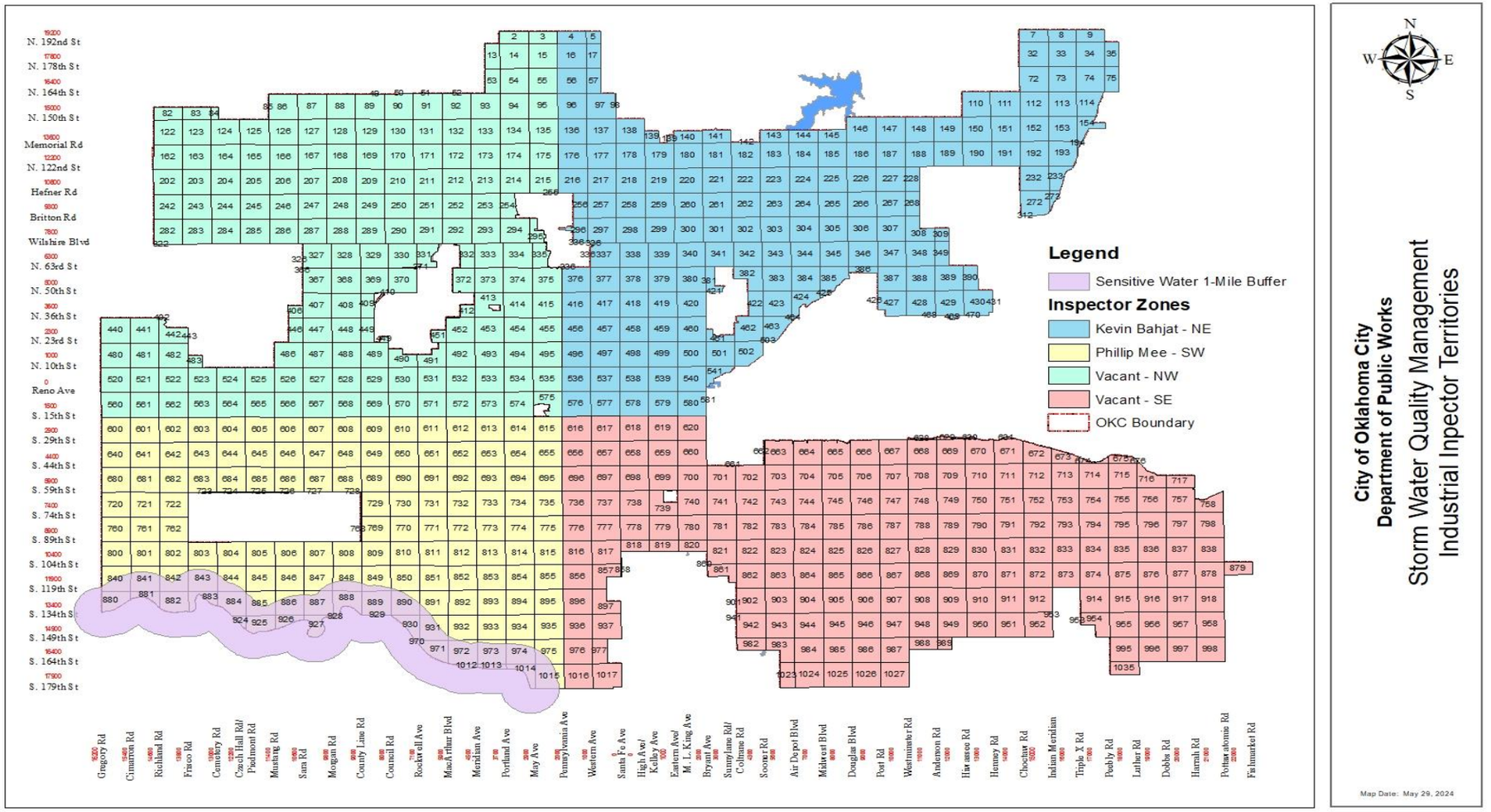
Street Name	Sweep Frequency	Length (ft.)
W RENO AVE	2PM	56
W RENO AVE	2PM	56
W RENO AVE	2PM	55
W RENO AVE	2PM	24
W RENO AVE	2PM	24
W RENO AVE	2PM	327
W RENO AVE	2PM	455
W RENO AVE	2PM	1017
W RENO AVE	2PM	178
W RENO AVE	2PM	197
W RENO AVE	2PM	472
W RENO AVE	2PM	546
W RENO AVE	2PM	237
S MERIDIAN AVE	2PM	24703
	2PM	2150
	2PM	2243
TERMINAL DR	2PM	3054
NW 10TH ST	2PM	3783
CHARLIE CHRISTIAN AVE	2PW	782
COLCORD DR	2PW	1887
COMPRESS ST	2PW	283
COUCH DR	2PW	3416
DEAN A MCGEE AVE	2PW	2339
E CALIFORNIA AVE	2PW	748
E MAIN ST	2PW	1892
E RENO AVE	2PW	2383
E RENO AVE	2PW	8677
E SHERIDAN AVE	2PW	3104

Street Name	Sweep Frequency	Length (ft.)
FLAMING LIPS ALLEY	2PW	1772
JOHNNY BENCH DR	2PW	924
N BROADWAY AVE	2PW	4303
N BROADWAY AVE MEDIAN	2PW	33
N DEWEY AVE	2PW	498
N E K GAYLORD BLVD	2PW	4211
N E K GAYLORD BLVD MEDIAN	2PW	156
N FRED JONES AVE	2PW	920
N HARVEY AVE	2PW	2876
N HARVEY AVE MEDIAN	2PW	60
N HUDSON AVE	2PW	3575
N JOE CARTER AVE	2PW	186
N LEE AVE	2PW	1325
N MICKEY MANTLE DR	2PW	389
N OKLAHOMA AVE	2PW	426
N ROBINSON AVE	2PW	2456
N SHARTEL AVE	2PW	2063
N WALKER AVE	2PW	2021
N WALNUT AVE	2PW	2289
NE 4TH ST	2PW	518
NE 5TH ST	2PW	961
NE 6TH ST	2PW	925
NW 1ST ST	2PW	867
NW 4TH ST	2PW	5333
NW 6TH ST	2PW	5361
PARK AVE	2PW	2033
PATIENCE LATTING CIR	2PW	579
ROBERT S KERR AVE	2PW	3910

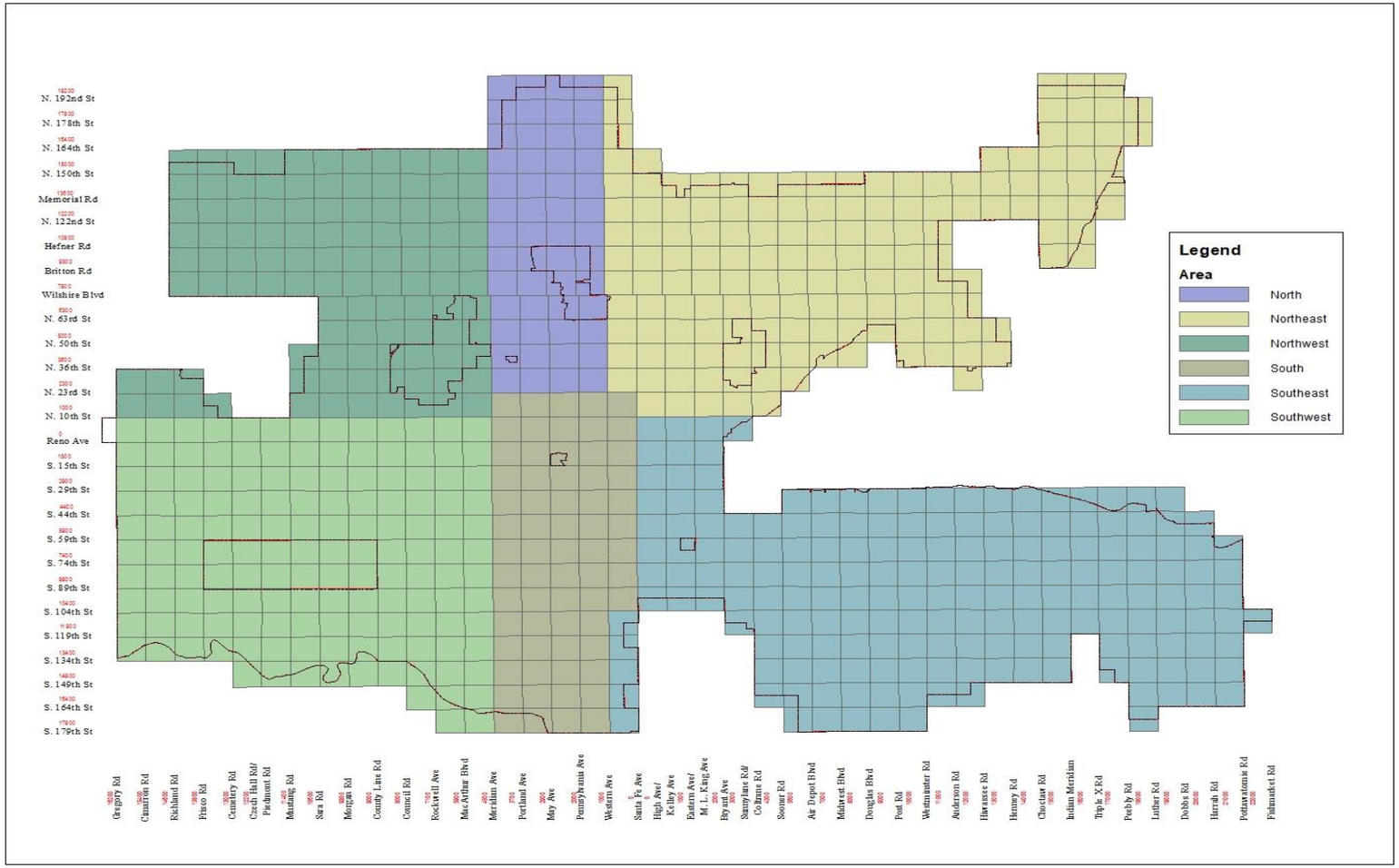
Street Name	Sweep Frequency	Length (ft.)
RON NORICK BLVD	2PW	1591
S DEWEY AVE	2PW	803
S E K GAYLORD BLVD	2PW	1606
S E K GAYLORD BLVD	2PW	2336
S E K GAYLORD BLVD MEDIAN	2PW	46
S FRED JONES AVE	2PW	627
S JOE CARTER AVE	2PW	794
S LEE AVE	2PW	802
S MICKEY MANTLE DR	2PW	798
S OKLAHOMA AVE	2PW	1762
S OKLAHOMA AVE MEDIAN	2PW	61
S ROBINSON AVE	2PW	1589
S SHARTEL AVE	2PW	809
S SHIELDS BLVD	2PW	770
S WALKER AVE	2PW	798
SE 2ND ST	2PW	291
VINCE GILL AVE	2PW	315
W CALIFORNIA AVE	2PW	2242
W MAIN ST	2PW	6202
W MAIN ST MEDIAN	2PW	154
W RENO AVE	2PW	6002
W SHERIDAN AVE	2PW	6752
WANDA JACKSON WAY	2PW	814
SW 4TH ST	2PW	47
SW 5TH ST	2PW	48
NW 5TH ST	2PW	1229
NW 5TH ST	2PW	3644
E RENO AVE MEDIAN	2PW	81

Street Name	Sweep Frequency	Length (ft.)
RAMP	2PW	84
N ROBINSON AVE	2PW	768
N SHARTEL AVE	2PW	751
N WALKER AVE	2PW	762
TERMINAL DR		98
TERMINAL DR		309
NE 59TH ST		65

Appendix O: Industrial Designated Inspector Areas



Appendix P: Designated Construction Inspector Areas (2024)



Appendix Q: Waterway Clean Sweep Safety Awareness and Precautions

WATERWAY
CLEAN SWEEP
PROGRAM

Safety Awareness and Precautions

1. Assure that all participants are responsible individuals and that participating minors under the age of eighteen are provided with adequate adult supervision. There should be a one (1) to four (4) adult to child ratio.

2. Children under the age of eleven (11) may not be present along the designated cleanup area.

3. All participants must read and sign the 'Release and Waiver of Liability' agreement. Participants under the age of 18 must have the agreement reviewed and signed by a parent or legal guardian.

4. Leaders will review safety measures with crew members prior to work.

5. Use safety equipment and follow safety precautions at all times. Wear safety vests at all times. When safety vests are not available, wear brightly colored shirts. Wear other clothing that may be appropriate for your work area and the weather, such as boots, long-sleeve shirt, long pants, and a hat.

6. Work during daylight hours. Stop working during inclement weather.

7. Avoid overexertion. Provide water, sunscreen, and insect repellant.

8. Avoid areas with noxious weeds such as poison oak, poison ivy, sumac, etc.

9. Use caution when walking on slopes and be alert for holes and obstacles.

10. Bridges and rip-rap are limits.

11. **Be alert for snakes, stinging insects, spiders, fire ants, etc.**

12. Stay clear of any construction projects.

13. Seek assistance with heavy lifting.

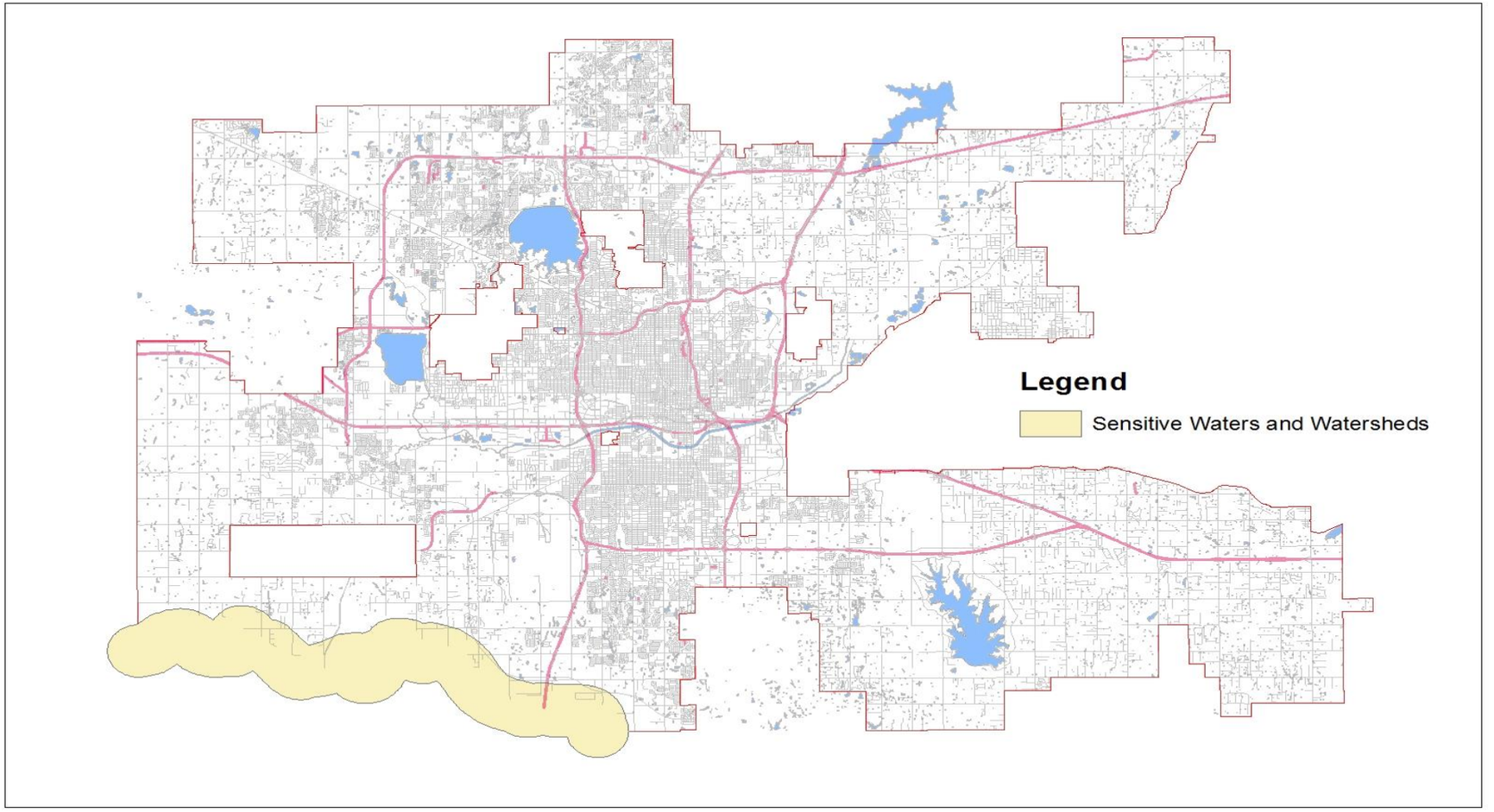
14. Do not remove any hazardous substance. When in doubt, contact Andrea Shelton at **(405) 297-1797** or andrea.shelton@okc.gov. If after hours, contact the Oklahoma City Police Department (911).

15. Park vehicles in legal parking spaces or off roadside, not on the shoulder. Do not obstruct traffic. Groups are also encouraged to work with nearby businesses, schools, and churches to utilize their parking lots.

Always be prepared for an emergency

- Have a first aid kit available
- Have transportation available at all times
- Know the location of the nearest hospital or emergency room

Appendix R: Sensitive Waters and Watersheds for Federally Listed Species for the OPDES Multi-Sector General Permit OKR05 for Stormwater Discharges from Industrial Activity and the OKR10 Construction General Permit



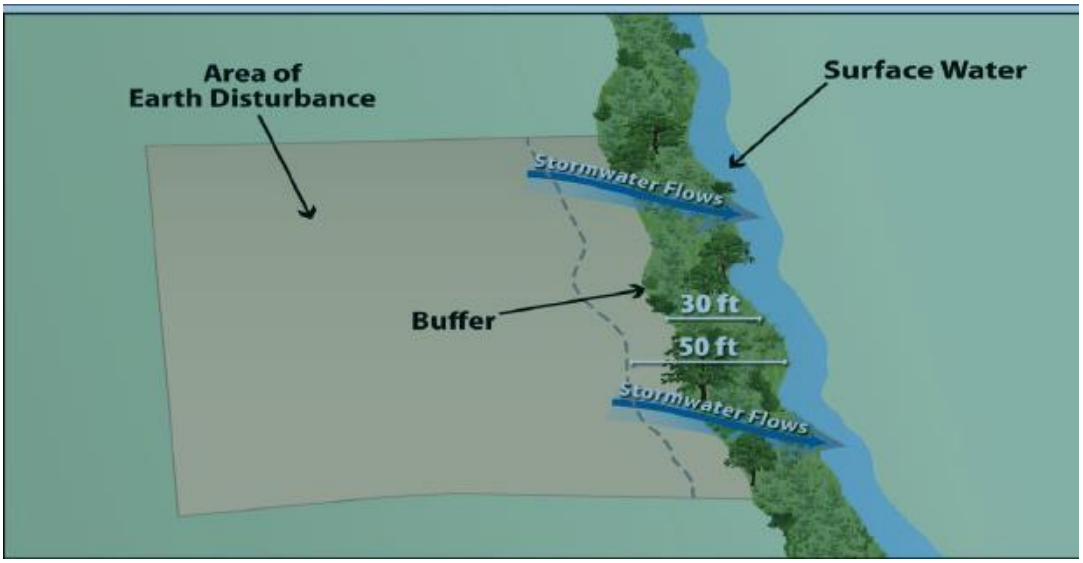
Appendix S: OKR10 Natural Buffer or Equivalent Sediment Control

The following information was taken wholly or in part from the General Permit OKR10 for Stormwater Discharges from Construction Activities within the State of Oklahoma, October 18, 2017.

H.1 Sites that are required to provide and maintain natural buffers and/or equivalent erosion and sediment controls

If the land disturbing activities will occur within the Aquatic Resources of Concern (ARC) which are identified by USFWS and ODWC, a vegetated buffer of at least 100 feet is required between the area disturbed and all perennial or intermittent streams on or adjacent to the construction site, or a vegetated buffer of at least 50 feet is required between the area disturbed and all ephemeral streams. If your disturbing activities will be adjacent to the waters of the State, a vegetated buffer of at least 50 feet is required. Figure H – 1 illustrates when a site would be required to comply with the requirements in Part 3.3.1.D due to their proximity to surface waters. If the surface water is not located within 50 feet of the earth-disturbing activities, Part 3.3.1 does not apply. If you determine that the buffer requirements apply to your site and those buffer requirements cannot be met, you may continue on to Part H. 2 of this Addendum.

Figure H - 1. Example of Earth-Disturbing Activities within 50 feet of surface water.



H.2 Compliance Alternatives to the Buffer Requirements

The following are 3 compliance alternatives from which permittees can choose, unless you qualify for any of the exceptions in Part H.3 of the Addendum:

1. Provide and maintain a 100-foot or 50-foot undisturbed natural buffer; or
2. Provide and maintain an undisturbed natural buffer that is less than 100-feet or 50-feet and is supplemented by additional erosion and sediment controls that achieve the sediment load reduction equivalent to a 100-foot or 50-foot undisturbed natural buffer; or

3. If infeasible to provide and maintain an undisturbed natural buffer of any size, implement erosion and sediment controls to achieve the sediment load reduction equivalent to a 100-foot or 50-foot undisturbed natural buffer.

The compliance alternative selected must be maintained throughout the duration of permit coverage.

H.3 Exceptions to the Compliance Alternatives

The following exceptions apply to the requirement of Parts 3.3.1.B and 3.5.2.A

- Construction approved under a CWA Section 404 permit; or
- Construction of a water-dependent structure or water access areas (e.g., pier, boat ramp, trail); or
- If there is no discharge of stormwater to waters of the State through the area between the disturbed portions of the site and any waters of the State located within 100-feet or 50-feet of the site; or
- Where no natural buffer exists due to preexisting development disturbances (e.g., structures, impervious surfaces) that occurred prior to the initiation of planning for the current development of the site.

You must document in your SWP3 if any disturbances related to any of the above exceptions occurs within the buffer area on your site.

H.4 Requirements for Providing and Maintaining Natural Buffers

This part of the Addendum applies to you if you choose either Compliance Alternative 1 (100-foot or 50-foot buffer) or Compliance Alternative 2 (a buffer of < 100 feet or < 50 feet supplemented by additional erosion and sediment controls that achieve the equivalent sediment load reduction as the 100-foot or 50-foot buffer).

A. Buffer Width Measurement

Where you are retaining a buffer of any size, the buffer should be measured perpendicularly from any of the following points, whichever is further landward from the water:

1. The ordinary high water mark of the water body, defined as the line on the shore established by fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, and/or the presence of litter and debris; or

2. The edge of the stream or river bank, bluff, or cliff, whichever is applicable.

Refer to Figure H-2 and Figure H-3. You may find that specifically measuring these points is challenging if the flow path of the surface water changes frequently, thereby causing the measurement line for the buffer to fluctuate continuously along the path of the waterbody. Where this is the case, DEQ suggests that rather than measuring each change or deviation along the water's edge, it may be easier to select regular intervals from which to conduct your measurement. For instance, you may elect to conduct your buffer measurement every 5 to 10 feet along the length of the water.

Figure H - 2 Buffer measurement from the ordinary high water mark of the water body, as indicated by a clear natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, and/or the presence of litter/debris.

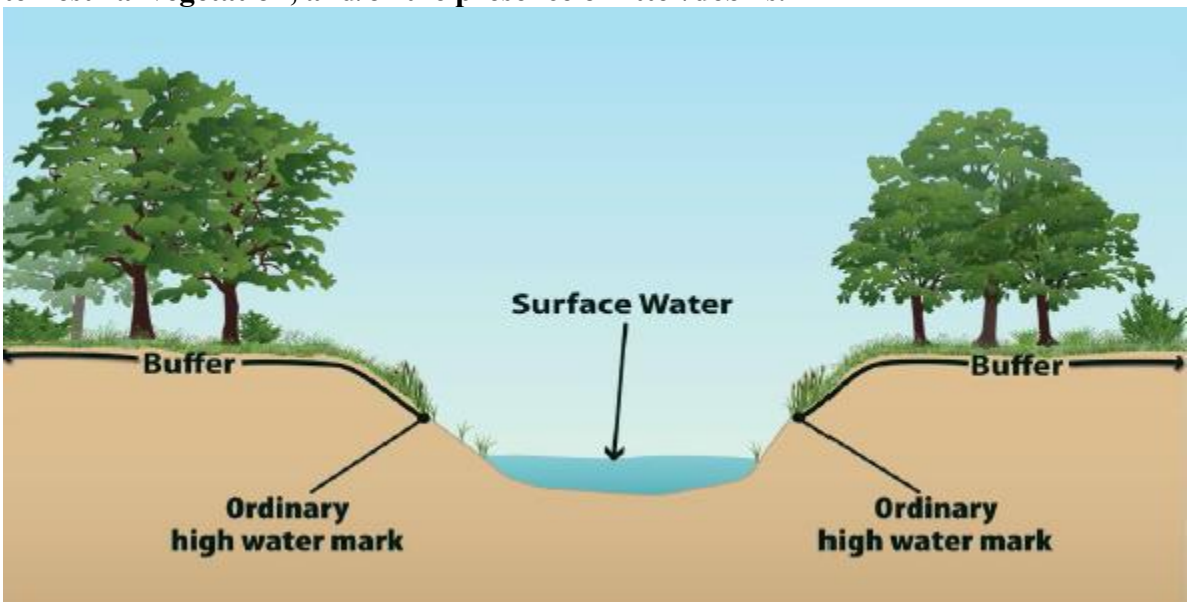
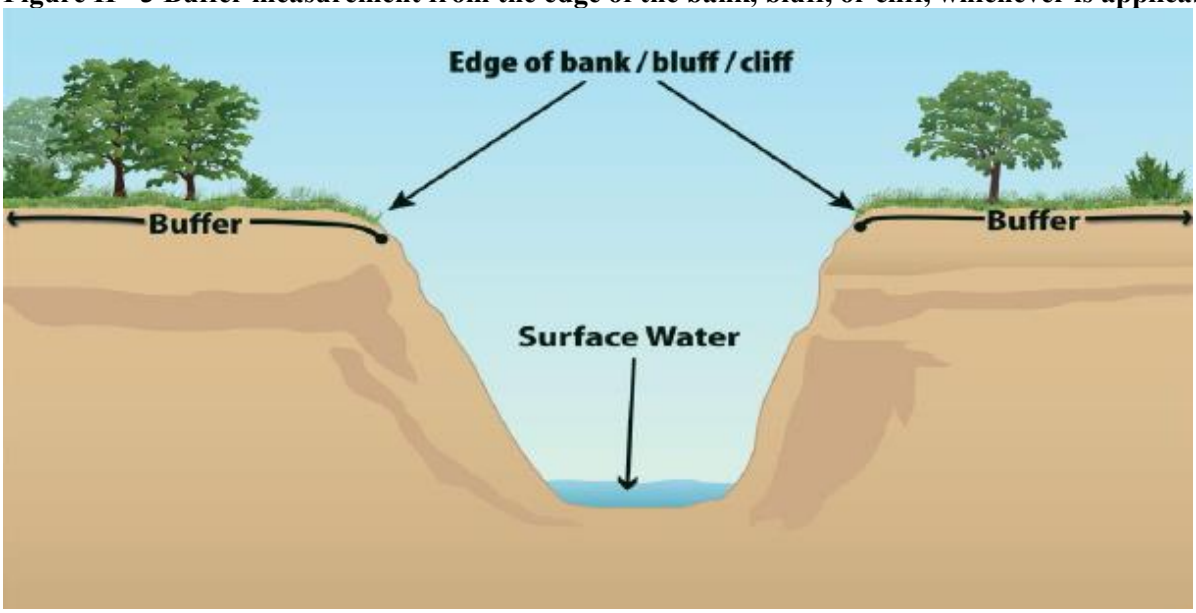


Figure H - 3 Buffer measurement from the edge of the bank, bluff, or cliff, whichever is applicable.



B. Limits to Disturbance within the Buffer

You are considered to be in compliance with this requirement to provide and maintain a natural buffer if you retain and protect from construction activities the natural buffer that existed prior to the commencement of construction. If the buffer area contains no vegetation prior to the commencement of construction (e.g., sand or rocky surface), you are not required to plant vegetation. As noted above, any preexisting structures or impervious surfaces are allowed in the buffer provided you retain and protect from disturbance the vegetation in the buffer outside the preexisting disturbance.

To ensure that the water quality protection benefits of the buffer are retained during construction, you are prohibited from conducting any earth-disturbing activities within the buffer during permit coverage.

C. Discharges to the Buffer

You must ensure that all discharges from the area of earth disturbance to the natural buffer are first treated by the site's erosion and sediment controls (*for example, you must comply with the Part 3.3.1.C requirement to establish sediment controls along any perimeter areas of the site that will receive pollutant discharges*), and if necessary to prevent erosion caused by stormwater flows within the buffer, you must use velocity dissipation devices.

D. SWP3 Documentation

You are required to document in your SWP3 the natural buffer width that is retained. For example, if you are complying with Compliance Alternative 1, you must specify in your SWP3 that you are providing a 100-foot or 50-foot buffer. Or, if you will complying with Compliance Alternative 2, you must document the reduced width of the buffer you will retaining (and you must also describe the erosion and sediment controls you will use to achieve an equivalent sediment reduction, as required in Part H.5 below. Note that you must also show any buffers on your site map in your SWP3. Additionally, if any disturbances related to the exceptions in Part H. occur within the buffer area, you must document this in the SWP3.

H.5 Guidance for Providing the Equivalent Sediment Reduction as the 100-foot or 50-foot Buffer

If you are selecting Compliance Alternative 2 (provide and maintain a buffer that is less than 100 feet or 50 feet that is supplemented by erosion and sediment controls that achieve the sediment load reduction equivalent to a 100-foot or 50-foot buffer) or Compliance Alternative 3 (implement erosion and sediment controls to achieve the sediment load reduction equivalent to a 100-foot or 50-foot buffer).

A. Determine Whether it is Feasible to Provide a Reduced Buffer

DEQ recognizes that there will be a number of situations in which it will be infeasible to provide and maintain a buffer of any width. While some of these situations may exempt you from the buffer requirement entirely (See H.3), if you do not qualify for one of these exemptions, there still may be conditions or circumstances at your site that make it infeasible to provide a natural buffer. For example, there may be sites where a significant portion of the property on which the earth-disturbing activities will occur is located within the buffer area, thereby precluding the retention of natural buffer areas.

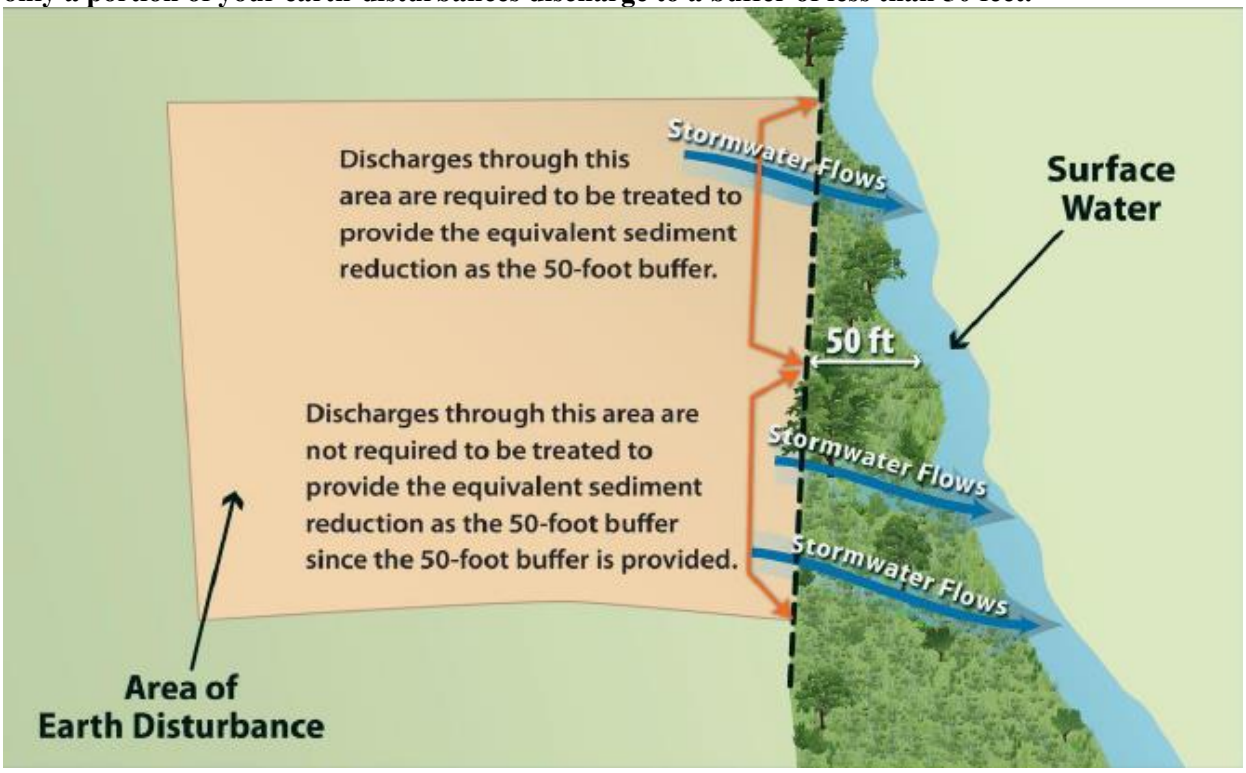
Therefore, you should choose Compliance Alternative 2 if it is feasible for you to retain some natural buffer on your site. (Note: For any buffer width retained, you are required to comply with the requirements in Part H.4, above, concerning the retention of vegetation and restricting earth disturbances.) Similarly, if you determine that it is infeasible to provide a natural buffer of any size during construction, you should choose Compliance Alternative 3.

B. Design Controls That Provide Equivalent Sediment Reduction as 100-foot or 50-foot Buffer

You must next determine what additional controls must be implemented on your site that, alone or in combination with any retained natural buffer, achieve a reduction in sediment equivalent to that achieved by a 100-foot or 50-foot buffer.

Note that if only a portion of the natural buffer is less than 50 feet, you are only required to implement erosion and sediment controls that achieve the sediment load reduction equivalent to the 50-foot buffer for discharges through that area. You would not be required to provide additional treatment of stormwater discharges that flow through 50 feet or more of natural buffer. See Figure H - 4.

Figure H - 4 Example of how to comply with the requirement to provide the equivalent sediment reduction when only a portion of your earth-disturbances discharge to a buffer of less than 50 feet.



Steps to help you meet Compliance Alternative 2 and 3 requirements are provided below:

Step 1 - Estimate the Sediment Reduction from the 100-foot or 50-foot Buffer

In order to design controls that match the sediment removal efficiency of a 100-foot or 50- foot buffer, you first need to know what this efficiency is for your site. The sediment removal efficiencies of natural buffers vary according to a number of site-specific factors, including precipitation, soil type, land cover, slope length, width, steepness, and the types of sediment controls used to reduce the discharge of sediment prior to the buffer. DEQ has simplified this calculation by developing buffer performance tables covering a range of vegetation and soil types for the areas covered by the permit. See Attachment 1, Tables H - 1 through H - 4. Note: buffer performance values in Tables H - 1 through H - 4 represent the percent of sediment captured through the use of perimeter controls (e.g., silt fences) and 100-foot or 50-foot buffers at disturbed sites of fixed proportions and slopes. Using Tables H - 1 through H - 4 (see Attachment 1), you can determine the sediment removal efficiency of a 100-foot or 50-foot buffer for your geographic area by matching the

vegetative cover type and the type of soils that predominate at your site. For example, if your site is located in Oklahoma City (see Table H - 1), and your buffer vegetation corresponds most closely with that of fescue grass, and the soil type at your site is best typified as sand, your site's sediment removal efficiency would be 90 percent.

In this step, you should choose the vegetation type in the tables that most closely matches the vegetation that would exist naturally in the buffer area on your site regardless of the condition of the buffer. However, because you are not required to plant any additional vegetation in the buffer area, in determining what controls are necessary to meet this sediment removal equivalency in Step 2 below, you will be able to take credit for this area as a fully vegetated "natural buffer."

Similarly, if a portion of the buffer area adjacent to the surface water is owned by another party and is not under your control, you can treat the area of land not under control as having the equivalent vegetative cover and soil type that predominates on the portion of the property on which your construction activities are occurring. *For example, if your earth-disturbances occur within 50 feet of a surface water, but the 10 feet of land immediately adjacent to the surface water is owned by a different party than the land on which your construction activities are taking place and you do not have control over that land, you can treat the 10 foot area adjacent to the stream as having the equivalent soil and vegetation type that predominates in the 40 foot area under your control. You would then make the same assumption in Step 2 for purposes of determining the equivalent sediment removal.*

Alternatively, you may do your own calculation of the effectiveness of the 50-foot buffer based upon your site-specific conditions, and may use this number as your sediment removal equivalency standard to meet instead of using Tables H – 1 through H - 4. This calculation must be documented in your SWP3.

Step 2 - Design Controls That Match the Sediment Removal Efficiency of the 100-foot or 50-foot Buffer

In Steps 1 and 2, you determined both the expected sediment removal efficiency of a 100-foot or 50- foot buffer at your site, and you used this number as a performance standard to design controls to be installed at your site, which alone or in combination with any retained natural buffer, achieves the expected sediment removal efficiency of a 100-foot or 50-foot buffer at your site. The final step is to document in your SWP3 the information you relied on to calculate the equivalent sediment reduction as an undisturbed natural buffer. DEQ will consider your documentation to be sufficient if it generally meets the following:

For Step 1: refer to the Table in Attachment 1 that you used to derive your estimated 100-foot or 50-foot buffer sediment removal efficiency performance. Include information about the buffer vegetation and soil type that predominate at your site, which you used to select the sediment load reduction value in Tables H - 1 through H - 4. Or, if you conducted a site-specific calculation for sediment removal efficiency, provide the specific removal efficiency, and the information you relied on to make your site-specific calculation.

For Step 2: (1) Specify a single designed stormwater control (see Table H-1 – H-4) or other stormwater controls that you used to estimate sediment load reductions from your site. Specify a model or other type of calculator that you used to support your calculation if any; and (2) the results of calculations showing how your controls will meet or exceed the sediment removal efficiency from Step 1. If you choose Compliance Alternative 3, you must also include in your SWP3 a description of why it is infeasible for you to provide and maintain an undisturbed natural buffer of any size.

Step 3 - Document How Site-Specific Controls Will Achieve the Sediment Removal Efficiency of the 100-foot or 50-foot Buffer

In Steps 1 and 2, you determined both the expected sediment removal efficiency of a 100-foot or 50- foot buffer at your site, and you used this number as a performance standard to design controls to be installed at your site, which alone or in combination with any retained natural buffer, achieves the expected sediment removal efficiency of a 100-foot or 50-foot buffer at your site. The final step is to document in your SWP3 the information you relied on to calculate the equivalent sediment reduction as an undisturbed natural buffer. DEQ will consider your documentation to be sufficient if it generally meets the following:

For Step 1: refer to the Table in Attachment 1 that you used to derive your estimated 100-foot or 50-foot buffer sediment removal efficiency performance. Include information about the buffer vegetation and soil type that predominate at your site, which you used to select the sediment load reduction value in Tables H - 1 through H - 4. Or, if you conducted a site-specific calculation for sediment removal efficiency, provide the specific removal efficiency, and the information you relied on to make your site-specific calculation.

For Step 2: (1) Specify a single designed stormwater control (see Table H-1 – H-4) or other stormwater controls that you used to estimate sediment load reductions from your site. Specify a model or other type of calculator that you used to support your calculation if any; and (2) the results of calculations showing how your controls will meet or exceed the sediment removal efficiency from Step 1. If you choose Compliance Alternative 3, you must also include in your SWP3 a description of why it is infeasible for you to provide and maintain an undisturbed natural buffer of any size.

ATTACHMENT 1

Sediment Removal Efficiency Tables: Percent of sediment removal was calculated for a 200-foot runoff area with a 100-foot buffer, and a 100-foot runoff area with a 50-foot buffer. DEQ recognizes that very high removal efficiencies, even where theoretically achievable by a 50-foot or 100-foot buffer, may be very difficult to achieve in practice using alternative controls. Therefore in the tables below, DEQ has limited the removal efficiencies to a maximum of 90%. Efficiencies that were calculated at greater than 90% are shown as 90%, and this is the minimum percent removal that must be achieved by alternative controls. When more than one alternative BMP must be used to compensate for the loss of the buffer strip, this amount should be calculated using the following formula:

$$\textit{Removal Rate}_{total} = \textit{Removal Rate}_1 + (1-\textit{Removal Rate}_1)(\textit{Removal Rate}_2)$$

For example, if we are installing two BMPs that both have a 70% removal rate, the total removal rate is:

$$0.70 + (1 - 0.70)(0.70) = 0.91 = 91\%$$

Best Management Practices Defined:

- Fescue: Buffer strip (100 feet or 50 feet) at the end of the overland flow path of Fescue grass, the area has not been grazed

- Grama Grass: Buffer strip (100 feet or 50 feet) at the end of the overland flow path of Grama grass, at least the third year after seeding
- Range Grass: Buffer zone (100 feet or 50 feet) at the end of the overland flow path of a generic low production range grass
- Weeds: Buffer zone (100 feet or 50 feet) at the end of the overland flow path of at least 5 years of growth of generic weeds started from volunteer germination
- 12" Wattle: 12 inch straw sock or wattle installed at the base of the runoff area
- 6" Wattle: 6 inch straw sock or wattle installed at the end of the overland flow path
- Roll Material: Erosion control blanket placed over the disturbed area
- Silt Fence: Full retardance fabric silt fence installed at the end of the overland flow path
- Straw Mulch: Straw mulch applied over the disturbed area, 4000 lbs./acre
- Gravel Berm: Gravel bag berm installed on a level contour to intercept sheet flows.

Soils Defined:

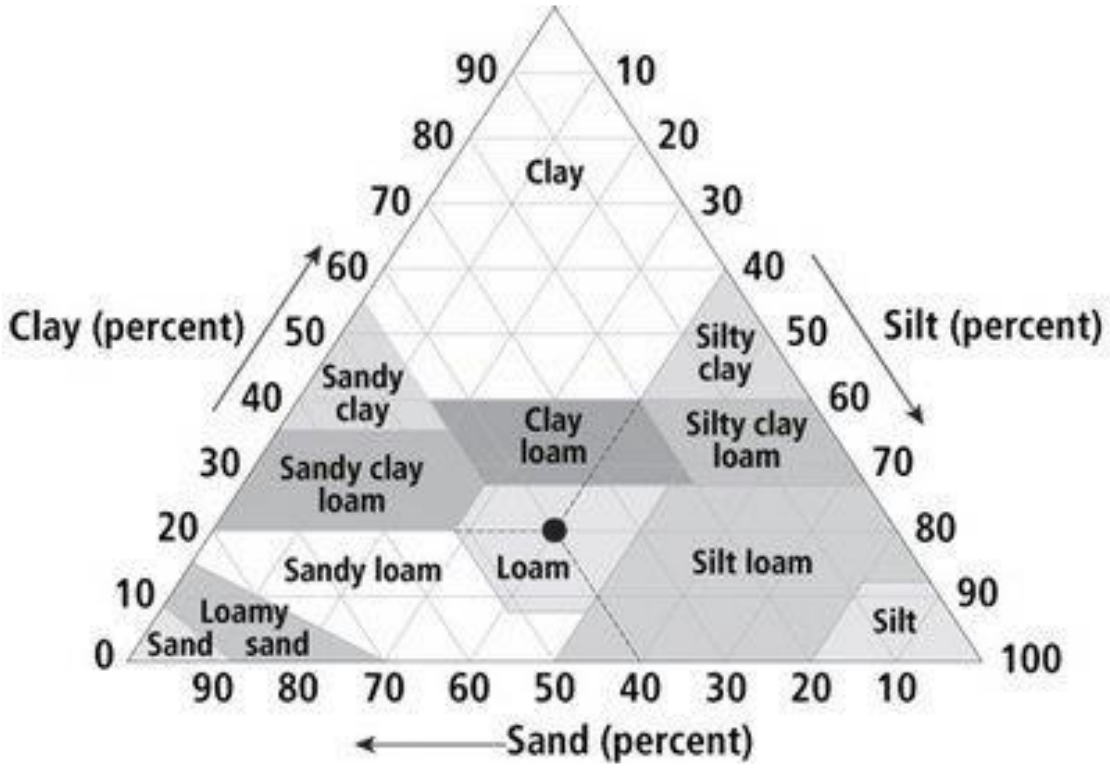


Table H-1 Estimated Buffer Performance of Blade Fill in Oklahoma County, Oklahoma *

Best Management Practices**	Estimated % Sediment Removal										
	Clay	Silty Clay	Silty Clay Loam	Clay Loam	Silt Loam	Loam	Sandy Loam	Silt	Sandy Clay Loam	Loamy Sand	Sand
Fescue (100' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Fescue (50' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Grama Grass (100' Buffer)	80	83	81	82	81	81	80	79	82	85	87
Grama Grass (50' Buffer)	79	79	82	80	81	80	80	79	80	83	76
Range Grass (100' Buffer)	89	87	90	90	90	90	90	90	90	90	89
Range Grass (50' Buffer)	88	86	90	90	90	90	90	90	90	98	87
Weeds (100' Buffer)	68	67	70	71	71	72	73	72	73	73	63
Weeds (50' Buffer)	67	65	69	68	70	71	71	70	72	67	53
12" Wattle	71	61	56	67	45	57	70	20	76	82	73
6" Wattle	61	52	48	59	41	52	68	20	73	66	29
Roll Material	90	90	90	90	90	90	90	90	90	90	90
Silt Fence	61	52	48	59	41	52	68	20	73	66	66
Straw Mulch	76	75	77	73	78	75	77	81	76	77	88
Gravel Bag Berm	80	68	64	75	50	62	74	27	80	84	86

* Applicable for sites less than nine percent slope

** Characterization focuses on the under-story vegetation

Table H-2 Estimated Buffer Performance of Blade Cut in Oklahoma County, Oklahoma *

Best Management Practices**	Estimated % Sediment Removal										
	Clay	Silty Clay	Silty Clay Loam	Clay Loam	Silt Loam	Loam	Sandy Loam	Silt	Sandy Clay Loam	Loamy Sand	Sand
Fescue (100' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Fescue (50' Buffer)	90	90	90	90	90	90	90	90	90	90	90
Grama Grass (100' Buffer)	60	58	74	69	78	77	73	74	72	57	16
Grama Grass (50' Buffer)	59	53	67	62	74	30	69	74	70	38	11
Range Grass (100' Buffer)	87	85	89	90	90	90	90	89	89	86	86
Range Grass (50' Buffer)	85	84	88	89	90	90	90	89	87	84	84
Weeds (100' Buffer)	57	52	62	63	64	64	66	62	26	52	43
Weeds (50' Buffer)	53	51	58	58	62	64	66	62	58	46	39
12" Wattle	63	53	55	65	46	62	75	20	77	54	11
6" Wattle	28	26	45	46	42	58	63	17	38	7	1
Roll Material	83	84	85	83	86	85	85	90	85	86	86
Silt Fence	28	26	45	46	42	58	63	17	38	7	1
Straw Mulch	44	42	45	42	46	44	46	55	43	48	47
Gravel Bag Berm	76	65	61	72	48	62	73	22	77	82	82

* Applicable for sites less than nine percent slope

** Characterization focuses on the under-story vegetation

Appendix T: OKC, SWQ Activity Permit for Adopt-A-City- Street Volunteer Activities (Example)

AACS ACTIVITY PERMIT

Event ID: 1

THE CITY OF OKLAHOMA CITY
Public Works Department, Storm Water Quality Management Division
PHONE (405) 297-1774 FAX (405) 297-1770 AdoptACityStreet@okc.gov

AACS Group	Permit Request Date	Date of Event	Time of Event
Selfless Hands Foundation - AACS	2020-01-06	2020-01-11	10:00:00

Event Location: North Kelly btw NE 23rd and NE 36th Street

Supply Pickup Date: 2020-01-09

Expected No Participants: 15

1. The Liaison will assure that all participants are responsible individuals and participating minors under the age of 18 years must be provided with adequate adult supervision.
2. The liaison must provide safety training for other members in the group.
3. The liaison must distribute and collect signed release and waiver of liability forms from all participants.
4. All participants must sign in for each clean-up event.
5. All participants must be properly dressed, including but not limited to closed toed shoes, long pants, shirts, safety vests and work gloves.
6. The group must notify the City of any big, heavy or hazardous trash not placed in a trash bag by the Group.
7. All borrowed safety vests and unused supplies must be returned to the City following the completion of each clean-up event unless otherwise provided pursuant to the contracted agreement within two days.
8. Children under 11 years of age may not be present along the adopted street, in the street or along the street right of way.
9. Groups need to clean up one side of the street at a time to maximize supervision, safety of participants and to minimize confusion and distraction to drivers.
10. The Group must park all vehicles well clear of the adopted street's roadway and at least ten feet from any shoulder or curb in an agricultural area. Groups are encouraged to work with nearby businesses, schools, churches or others to utilize parking off of city streets.

Applicant Name: Phone:

Applicant Address: Application Date: 2020-01-06

OFFICIAL USE ONLY

Superintendent / Assistant Superintendent

APPROVALS AND NOTIFICATIONS

Approval Countersignature

420 W. Main Street, Suite 360, Oklahoma City, OK 73102 • 405-297-1774 • FAX 405-297-1770

Appendix U: Adopt-a-Street Application Packet

Application for Adopt a City Street

The City of Oklahoma City will work with the adopting group to determine the specific section of roadway to be adopted.

Organization _____

Date of Application _____

Organization's Address _____

City _____ State _____ Zip _____

Liaison _____

Phone _____

Email _____

Approximate number of people participating in each clean-up _____

Oklahoma City Street(s) you are interested in adopting (in order of preference)

1) _____

_____

2) _____

_____

3) _____

_____

Page 1

ADOPTION AGREEMENT
Terms and Conditions

The City of Oklahoma City (hereinafter called "The City"), and the volunteer organization named

_____,

(hereinafter called "The Group") recognize the need and the desirability of litter-free city streets and roads (hereinafter collectively called "City Streets") and are entering this Agreement to permit The Group to contribute toward the effort of maintaining litter-free City Streets.

The Group agrees to the following terms and conditions:

1. The Group agrees to obey, abide by and to assure that each participant obeys all laws and regulations relating to pedestrian and traffic safety; all recommendations, terms and conditions set forth in the Oklahoma City Adopt A City Street Safety Training; and such terms and conditions as may be required by the City Engineer, Program Coordinator, or other designee (hereinafter collectively called "Program Coodinator") for such special conditions on particular adopted City Streets.

2. The Group must notify and remind each participant of the hazardous nature of a litter clean-up.

3. The Group has designated a contact person (hereinafter called "Liaison") on its Application for the Adopt A City Street Program who will:

(a) assure that all participants are responsible individuals and that participating minors under the age of eighteen (18) years are provided with adequate adult supervision;
(b) be trained and provide safety training of other members of The Group who wish to participate;
(c) distribute and collect signed RELEASE AND WAIVER OF LIABILITY forms from all participants;
(d) assure that all participants have signed in for each clean-up event;
(e) assure that all participants are properly dressed, including but not limited to closed toe shoes, long pants, shirts (preferably light, bright and long sleeved), safety vest and work gloves;
(f) notify The City before each clean-up event, when the clean-up event is complete, and notify The City of any big, heavy or hazardous trash not placed in a trash bag by The Group; and
(g) assure that all borrowed safety vests and unused supplies are returned to The City following the completion of each clean-up event unless otherwise provided pursuant to this Agreement within two days.

4. The Group must keep the Program Coordinator informed throughout the term of this agreement of the current address and telephone numbers for its Liaison. The Liaison shall notify the Program Coordinator in writing prior to changing its Liaison and/or prior to the Liaison changing his or her address and/or telephone number (s).

5. When participants are under the age of eighteen (18) years (hereinafter called "Young Participants"), The Group must furnish adult supervision using at least one (1) adult participant for every four (4) young participants. Adult supervisors of young participants must be consistently present at the clean-up site and in the presence of the young participants during all activities relating to the clean-up event.

6. Children under eleven (11) years of age may not be present along the adopted street, in the street or along the street right of way.

7. To maximize supervision, safety of participants and to minimize confusion and distraction to drivers, Groups need to clean up one side of the street at a time.

8. The Group must park all vehicles well clear of the adopted Street's roadway and at least ten (10) feet from any shoulder or curb in an agricultural area. Groups are encouraged to work with nearby businesses, schools, churches or others to utilize parking off of the City Streets.

9. The Group must adopt at least one (1) mile of adjacent, connected or adjoining City Streets unless agreed upon with the Program Coordinator and it must be both sides of the street.

10. The Group will adopt a City Street for a minimum of two (2) years.

11. The Group will pick up litter a minimum of four (4) times a year. No two pick ups will be more than four months apart. If a pick up date is set and poor weather conditions cause the event to NOT take place, it is the re-sponsibility of The Group to reschedule as soon as possible.

12. The Group may obtain, to the extent same are available, safety vests and supplies from The City through the Program Coordinator.

13. Each participant must read and comply with the City of Oklahoma City's Safety Tips.

14. The Group shall return the safety vests furnished by The City within two (2) working days following the clean-up event unless authorized by the Program Coordinator.

The City of Oklahoma City agrees to the following terms:

1. The City shall create and install the Adopt A City Street recognition signs. These signs (one for each direction of traffic) shall have The Group's name on each sign.

2. The City shall permit The Group to utilize City safety vests to be worn by the participants during the clean-up event. The Group must return the City's safety vests within two (2) working days after completion of the clean-up event.

3. The City shall provide The Group with trash bags to be utilized for the clean-up event only. The City agrees to pick up filled trash bags as soon as practicable after being notified of their location after the completion of the clean-up event by the Liaison.

4. The City agrees to provide safety training to The Group or just the Liaison, who will in turn train The Group as required in this Agreement.

This Agreement shall be effective as provided herein for two (2) years from the date of the first clean-up event. The Program Coordinator or The Group upon written notice may terminate this Agreement. The Program Coordinator reserves the right to modify or cancel this program and this contract at any time upon notice sent to the contact person at the address last provided in accordance with this Agreement.

Name of Group:_____

Print Name: _____

Signature: _____

Date:_____

CONTACT PERSON	DAYTIME TELEPHONE NUMBER
MAILING ADDRESS	EVENING TELEPHONE NUMBER
E-MAIL ADDRESS	

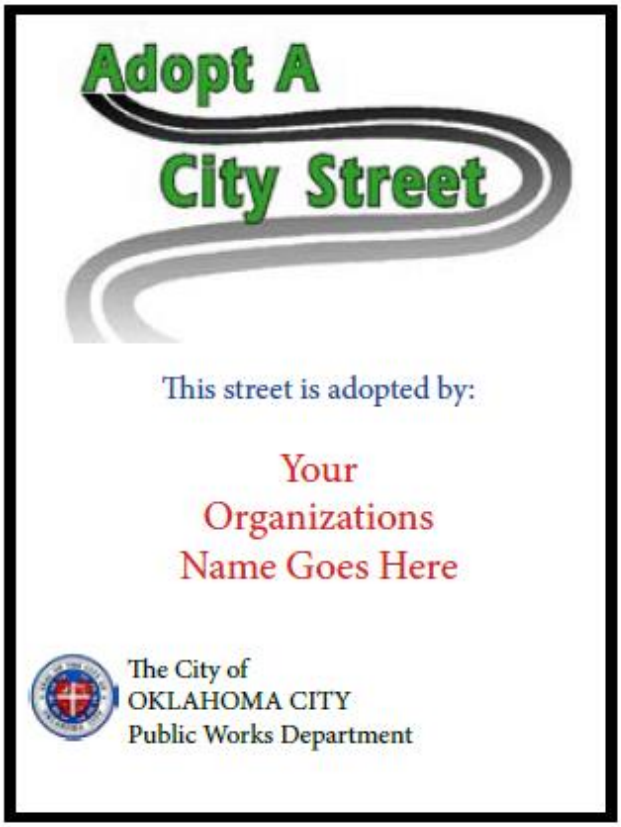
Organizations Request for AACS Sign

For every mile adopted, the group will receive two recognition signs

Additional advertising such as websites, phone numbers, addresses, or social media handles are NOT allowed on street signs.

MAXIMUM 3 lines, 15 spaces per line

1 letter, number, symbol or space per box



☐ I have reviewed the above information and verify that it is correct

Page 5

Submit Forms

You may submit forms via email or US mail.

Important: The signature field, found on page 5, is not supported with all Adobe versions. If you are unable to sign the digital form then you will need to print and sign the form. All contact information appears on page one.

Appendix V: Adopt-a-Street Event Packet

Adopt A City Street

Event Packet

Table of Contents

Litter Collection Event Steps 1
Activity Permit Request 2
Release and Waiver of Liability 3
Supply Bin Information 4
Safety Tips 5
Event Sign-in Sheet 6
Litter Collection Report 7

Program Coordinator

Community Relations Coordinator
420 W. Main, Suite 360
Oklahoma City, OK 73102
Office: (405) 297-1797
StormWaterOutreach@okc.gov

Litter Collection Event

1) Complete and submit Activity Permit Request at least one week prior to event.

2) Pick up supplies at Household Hazardous Waste (HHW), 1621 S. Portland.

3) All new participants sign the "release and waiver of liability" form.

4) Complete Litter Collection Report form following litter collection event and send to the project coordinator.

5) Return supplies to HHW within two business days.

Activity Permit Request

Permit request must be submitted a minimum of 7 days prior to event

To schedule an Adopt a City Street litter collection event please complete the information below and send to the program coordinator.

Organization _____

Applicant's Name _____

Application Date _____

Date of Event _____

Time of Event _____

Location _____

Expected number of participants _____

Date of pick up for supplies at HHW _____
(prior to event)

Program Coordinator
Community Relations Coordinator
420 W. Main, Suite 360
Oklahoma City, OK 73102
PH (405) 297-1797
StormWaterOutreach@okc.gov

Household Hazardous Waste Collection Center (HHW)
1621 S. Portland
Oklahoma City, OK 73108

RELEASE AND WAIVER OF LIABILITY

CITY OF OKLAHOMA CITY - PUBLIC WORKS DEPARTMENT
ADOPT-A-CITY-STREET PROGRAM

I DO HEREBY RELEASE the City of Oklahoma City and its officers, agents and employees from all claims and causes of action for any damages and/or injuries which may result from my participation in the City of Oklahoma City Adopt A City Street Program.

I AGREE TO HOLD HARMLESS the City of Oklahoma City and its officers, agents and employees from liability for any damages or injuries resulting from any acts or failure to act on my part during my participation in the City of Oklahoma City Adopt A City Street Program.

I UNDERSTAND in regards to my volunteer activities under the Adopt A City Street Program, am not employed or an agent of the City of Oklahoma City and I am not covered by any insurance or workmen's compensation coverage by virtue of the Adopt A City Street Agreement or by my participation in the Adopt A City Street Program.

I FULLY UNDERSTAND that there is a risk whenever I am in the street right-of-way or near traffic and streets. I FURTHER FULLY UNDERSTAND the risks of picking up litter along City streets; the proximity to vehicular traffic; hidden and latent objects, insects and holes.

I AGREE to stay off of City streets while collecting trash; to be alert to traffic on, entering and exiting City streets; to avoid grass cutting and construction activities on or nearby City streets; and to follow the instructions, terms, conditions and recommendations on the safety tips handout.

BY SIGNING THIS RELEASE AND WAIVER I AM INDICATING THAT I HAVE READ AND UNDERSTAND THIS RELEASE AND WAIVER AND AGREE TO ABIDE BY ITS PROVISIONS.

Signature: _____ Date: _____
Print Name: _____ Date of Birth: _____
Address: _____

Parent or Legal Guardian (If participant is under eighteen years of age)
Signature: _____ Date: _____
Print Name: _____ Relationship: _____
Address: _____

Page 3

Adopt A City Street

Supply Tote Information

Location:

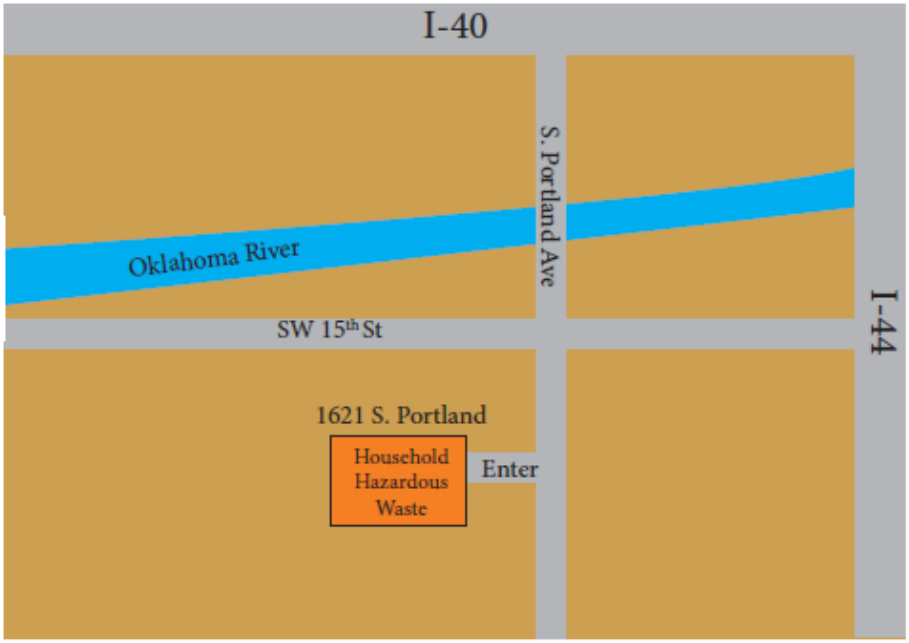
Household Hazardous Waste Collection Center
1621 S. Portland Avenue

Hours of operation:

Sunday & Monday: **CLOSED**
Tuesday - Friday: 9:30 AM - 6:00 PM
Saturday: 8:30 AM - 11:30 AM

Important:

Please submit the Activity Permit Request to the Program Coordinator **AT LEAST** (1) week prior to the desired date of your cleanup event, and return your supply tote to the HHW Collection Center within two (2) business days following the event.



Page 4

Adopt A City Street

SAFETY TIPS

Please review with all volunteers prior to EACH cleanup event.

1. Have good common sense, mental allertness and physical condition, including sight and hearing.

2. Have a sense of responsibility for safety of the public and obey all Oklahoma City municipal codes for pedestrians.

3. Park all vehicles clear of street traffic and work on one side of the street at the same time.

4. Work only in daylight hours and discontinue work in inclement weather, including fog, rain, lightning and when streets are wet or icy.

5. Adult supervision shall be provided for participants under the age of 18. Have a ratio of one adult for every four children. Children under the age of 11 should not be present at the pickup site.

6. Avoid over-exertion and areas where there is poison ivy, poison oak and other noxious weeds.

7. Wear light colored clothing, long sleeve shirts, pants, safety vest, a hat, heavy duty work gloves, and closed-toe, leather shoes or boots with ankle support.

8. Drink water and use plenty of sunscreen and bug repellent.

9. Do not attempt to remove known or suspected toxic, hazardous or dangerous substances. Immediately notify the Group Leader who will then take care of the substance or contact the Oklahoma City Police Department (911).

10. Do not try to compact trash bags to gain room for more trash. Injuries from broken or jagged objects often result from this practice. Fill the bag with what goes in easily, and get another bag.

11. Do not pick up items on bridges, ramps, railroad tracks or overpasses, heavy objects, or dead animals (call 297-3100 for removal and 297-2255 after hours).

12. Knives, machetes, axes, etc. should not be carried while picking up litter.

13. Be alert for places where snakes may be located, such as tall grass, inside boxes/sacks or near water and avoid these areas or hit the box/sack with a stick or pole prior to removing the trash item.

14. Be alert for stinging insects, spiders and fire ants. Have a first aid kit available.

15. Remove all temporary signs along easements, medians or poles on your adopted street or call the Action Center and they will have them removed.

Page 5

Adopt A City Street
Event Sign-in Sheet

Name of Organization: _____ Date: _____

Volunteer's Name	Release and Waiver of Liability Signed	Safety Tips Reviewed
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No
	☐ Yes ☐ No	☐ Yes ☐ No

Page 6

Adopt A City Street

Litter Collection Report Form

Email completed form to StormWaterOutreach@okc.gov

GROUP NAME _____

DATE OF LITTER COLLECTION EVENT _____

NUMBER OF VOLUNTEERS _____

NUMBER OF FILLED BAGS _____

WERE THERE ENOUGH SUPPLIES? Yes____ No ____

LOCATION OF FILLED BAGS _____

_____

OTHER ITEMS FOUND _____

_____

OTHER COMMENTS _____

_____

_____

City of Oklahoma City Public Works Department
Storm Water Quality Management Division
Community Relations Coordinator
420 W. Main, Suite 360
Oklahoma City, OK 73102
PH (405) 297-1797
StormWaterOutreach@okc.gov

Appendix W: Waterway Clean Sweep Program Information Sheet

City of Oklahoma City

Waterway Cleanup Program

What is a waterway cleanup?

A waterway cleanup is an organized event during which volunteers spend part of a day removing trash from the banks of local waterways and nearby lands and taking it to a central location for proper disposal and recycling. Success means the targeted area is noticeably cleaner at the end of the day. It is important that participants feel they have accomplished something meaningful.

Who participates?

The framework will be provided by the City of Oklahoma City Storm Water Quality Management. SWQ employees will direct teams. Volunteers will complete the work.

When will the event occur?

Saturday, November 4, 2017. The event will start at 9:00 a.m. and end at 11:00 a.m.

Registration & Orientation	**8:30 a.m. – 9:00 a.m.**
Cleanup event	**9:00 a.m. – 11:00 a.m.**
Wrap-up & supply check-in	**11:00 a.m. – 11:30 a.m.**

The event will not be held during inclement weather such as heavy rain, lightening, flooding, extremely high winds, extreme temperatures, etc.

Where will the event occur?

We will meet at **the area in blue on the map** for orientation and registration (see page two for map). Then walk over to the wetland area together **(circled in blue)**. This site should provide meaningful work for volunteers.

Supplies provided by City of Oklahoma City: rubber gloves, jersey gloves, safety vests, bags, and litter grabbers

Suggested supplies: hat, long sleeve shirt, long pants, closed-toe shoes, water, sunscreen, and insect repellant

Appendix X: Waterway Clean Sweep Liability Release

The City of OKLAHOMA CITY

Storm Water Quality Management Division
Release and Waiver of Liability

I do hereby release the City of Oklahoma City, hereafter referred to as the "City", and its officers, agents, and employees from all claims, causes of action, and liability for any damages and/or injuries resulting from any acts, or a failure to act on my part, during my participation in the Waterway Clean Sweep Program.

I understand I am not employed by or an agent of the City and I am not covered by insurance or worker's compensation coverage by my participation as a volunteer in the Waterway Clean Sweep Program.

I understand that there is a risk whenever I am walking on paved or unpaved terrain and near waterways. I understand that picking up litter along rivers, creeks, ponds, streams, inlets, outlets, and any other waterways may include risks such as hidden and latent objects, insects, pests, and holes.

I agree to stay with my group and out of waterways while collecting litter and to follow the instructions, terms, conditions, and recommendations reviewed during the safety training.

I hereby authorize the City and those acting pursuant to its authority to: (i) record my likeness and/or voice on a video, audio, photographic, digital, electronic, or any other medium; (ii) use my name and biographical material in connection with such recordings; and (iii) use, reproduce, exhibit, and/or distribute my name, biographical material, and such recordings in any medium (e.g., print publications, video, internet, social media, etc.) for promotional, advertising, educational, and/or other lawful purposes. I release and waive any claims or rights of compensation or ownership regarding such uses and understand that all such recordings shall remain the property of the City.

BY SIGNING BELOW, I ACKNOWLEDGE THAT I HAVE READ AND UNDERSTAND THIS RELEASE AND WAIVER AND AGREE TO ABIDE BY ITS PROVISIONS.

Participant Name (please print):_____

Participant Signature:_____

Date:_____

Email:_____

Parent or Legal Guardian (if Participant is under 18 years of age)

Name (please print):_____

Relationship to Participant:_____

Signature:_____

Date:_____

Email:_____

Please read form thoroughly, complete, and return to the Storm Water Quality Management Division.

okc.gov/swq | okcadoptacitystreet@okc.gov

Version 6/1/2023

ACKNOWLEDGMENT AND GENERAL RELEASE
(For Children Under Eighteen (18) Years of Age)

I acknowledge that I am a volunteer of The City of Oklahoma City Public Works Department, Storm Water Quality Division (City) and have agreed to assist in a litter-pickup event at multiple locations along the Oklahoma River Corridor (Site). I acknowledge that neither I nor my child(ren) are employees of, nor under any employment contract with, the City to perform work at the Site. I further acknowledge that I am at least eighteen (18) years of age, of sound body and mind, and that neither I nor my child(ren) have any physical or other impairments that prevent or limit us from performing such work.

I understand that this activity may involve strenuous physical exertion and carries inherent risks, including, but not limited to, property damage or loss, personal injury, or death, and that I and my child(ren) can avoid these inherent risks by not participating. I understand that factors beyond my control, *including negligence*, may affect our safety and well-being. In signing this Acknowledgement and General Release (Release), I acknowledge that neither the City nor the Oklahoma City Riverfront Redevelopment Authority (OCRRA) can guarantee my and my child(ren)'s safety and well-being and that we participate willingly. I agree to rely solely on my own insurance or resources to cover any medical bills or other expenses or losses. I understand that no workers' compensation or third-party insurance benefits will be available to us.

I hereby release the City and OCRRA, and their officers, agents, employees, affiliates, successors, and assigns, from all liability related, in any way, to our volunteer activities at the Site.

Signed this ____ day of _____, 2017.

Print Name (Parent or Guardian): _____

Signature of Parent or Guardian: _____

Names of Children: _____ Age: _____

_____ Age: _____

_____ Age: _____

_____ Age: _____

NOTE: Copies of signed Releases shall be provided to the Oklahoma City Parks and Recreation Department upon request.

Appendix Y: Oklahoma City Facilities with Industrial Storm Water Discharge Permits

Project Name	Project Address	Municipal Facility Type	Permit Type	Permit Number
CITY OF OKLAHOMA CITY (PARKS DEPARTMENT)	420 W MAIN SUITE 210 OKLAHOMA CITY, 73102	Office	Cosmetic Cleaning	CC IND 2846
MYRIAD GARDENS FOUNDATION	301 W RENO AVE OKLAHOMA CITY, OK 73102	Office	Cosmetic Cleaning	SWCC-2019-00302
SCISSORTAIL PARK FOUNDATION	300 SW 7TH ST OKLAHOMA CITY, OK 73109	Office	Cosmetic Cleaning	SWCC-2022-00447
5MG OKC CONVENTION CENTER	100 N Mick Cornett DR OKLAHOMA CITY, OK 73109	Office	Cosmetic Cleaning	SWCC-2023-00246
CITY OF OKC - TRAFFIC OPS	3738 SW 15th ST 18 OKLAHOMA CITY, OK 73108	Office	Cosmetic Cleaning	CC IND 1694
CITY OF OKC BUILDING MANAGEMENT	3738 SW 15th ST BLDG 19 OKLAHOMA CITY, OK 73108	Office	Cosmetic Cleaning	SWCC-2016-00123
OKLAHOMA STATE FAIR	3001 GENERAL PERSHING BLVD OKLAHOMA CITY, OK 73107	Fairgrounds	Cosmetic Cleaning	CC IND 1663
COTPA/METRO TRANSIT	2000 S MAY AVE OKLAHOMA CITY, OK 73108	Maintenance Facility	Cosmetic Cleaning	CC IND 1710
OKC SOLID WASTE MANAGEMENT DIV	11501 N PORTLAND AV OKLAHOMA CITY, OK 73120	Maintenance Facility	Industrial	IND 1388
FLEET SERVICES VEHICLE MAINTENANCE	3738 SW 15TH ST BLDG 8 OKLAHOMA CITY, OK 73108	Maintenance Facility	Industrial	IND 1638
CENTRAL MAINTENANCE FACILITY	3738 SW 15TH ST UNIT 4 OKLAHOMA CITY, OK 73108	Maintenance Facility	Industrial	IND 2598
LAKE HEFNER GOLF CLUB	4491 S LAKE HEFNER DR OKLAHOMA CITY, OK 73116	Golf Course	Industrial	IND 2882
PW DEPARTMENT TRAFFIC SERVICES	3738 SW 15TH ST 18 OKLAHOMA CITY, OK 73108	Maintenance Facility	Industrial	SWI-2024-00477
DEER CREEK WWTP	20600 N PORTLAND AVE OKLAHOMA CITY, OK 73012	Wastewater Treatment	Industrial	IND 1594
NORTH CANADIAN WWTP	12800 N ANDERSON RD OKLAHOMA CITY, OK 73049	Wastewater Treatment	Industrial	IND 1596

WITCHER PUMP STATION	5520 NE 108TH OKLAHOMA CITY, OK 73131	Wastewater Treatment	Industrial	IND 1597
SOUTH CANADIAN WWTP	15924 S MAY AVE OKLAHOMA CITY, OK 73170	Wastewater Treatment	Industrial	IND 1598
CHISHOLM CREEK WWTP	22000 N WESTERN OKLAHOMA CITY, OK 73012	Wastewater Treatment	Industrial	IND 1599
SOUTHSIDE MAINTENANCE FACILITY	2701 NE 4TH ST OKLAHOMA CITY, OK 73117	Transfer Center	Industrial	IND 1839
JAMES E STEWART GOLF COURSE	824 FREDERICK DOUGLASS AVE OKLAHOMA CITY, OK 73117	Golf Course	Industrial	IND 2861
LINCOLN PARK GOLF COURSE	4001 NE GRAND BLVD OKLAHOMA CITY, OK 73111	Golf Course	Industrial	IND 2990
OKLAHOMA CITY BOAT HOUSE	1513 EXCHANGE AVE OKLAHOMA CITY, OK 73108	River	Industrial	SWI-2014-00180
OK RIVER CRUISE MAINTENANCE FACILITY	1503 EXCHANGE AVE ,	River	Industrial	SWI-2014-00181
OKLAHOMA RIVER DREDGING	700 S PENNSYLVANIA AVE OKLAHOMA CITY, OK 73108	River	Industrial	SWI-2022-00852
PARKS WHEELER COMPLEX	600 SW 12TH ST OKLAHOMA CITY, OK 73109	Maintenance Facility	Industrial	SWI-2024-00480
PARKS BRICKTOWN CANAL MAINTENANCE FACILITY	220 SE 3RD ST OKLAHOMA CITY, OK 73129	Maintenance Facility	Industrial	SWI-2024-00491
PARKS RENO MAINTENANCE YARD	711 W RENO AVE OKLAHOMA CITY, OK 73102	Maintenance Facility	Industrial	SWI-2024-00578
TROSPER PARK GOLF COURSE	2301 SE 29TH ST OKLAHOMA CITY, OK 73129	Golf Course	Industrial	IND 1729
WILL ROGERS WORLD AIRPORT	7100 TERMINAL DR OKLAHOMA CITY, OK 73159	Airport	Industrial	IND 1398
WILEY POST AIRPORT	5915 PHILLIP J RHOADS AVE OKLAHOMA CITY, 73122	Airport	Industrial	IND 1399
C.E. PAGE AIRPORT	2300 CIMARRON RD YUKON, 73099	Airport	Industrial	IND 1400
COTPA / EMBARK	2000 S MAY AVE OKLAHOMA CITY, OK 73108	Maintenance Facility	Industrial	IND 1455
STATE FAIR GROUNDS	3001 GENERAL PERSHING BLVD OKLAHOMA CITY, OK 73107	Fairgrounds	Industrial	IND 1727

EARLYWINE GOLF COURSE	11600 S PORTLAND AVE OKLAHOMA CITY, OK 73170	Golf Course	Industrial	IND 2870
PARKS WEST DISTRICT MOWER SHOP	3738 SW 15TH ST 17 OKLAHOMA CITY, OK 73108	Maintenance Facility	Industrial	SWI-2024-00679
HOUSEHOLD HAZARDOUS WASTE FACILITY	3738 SW 15TH OKLAHOMA CITY, OK 73108	Transfer Center	No Exposure	NEC 2828
CITY OF OKLAHOMA CITY (BUILDING MANAGEMENT)	3738 SW 15TH ST OKLAHOMA CITY, OK 73108	Office	No Exposure	NEC 2951
OKC STREETCAR STORAGE AND MAINTENANCE FACILITY	406 SW 7TH ST OKLAHOMA CITY, OK 73109	Maintenance Facility	No Exposure	SWNE-2018-01011

Appendix Z – Interjurisdictional Agreements

MEMORANDUM

The City of
OKLAHOMA CITY

Council Agenda
Item No. VI. H.
11/14/06

TO: Mayor and City Council

FROM: James D. Couch, City Manager JDC

Memorandum of Understanding Concerning the Implementation and Enforcement of an Oklahoma Pollutant Discharge Elimination System Permit with the Oklahoma Turnpike Authority.

Purpose	This confirms the City of Oklahoma City and the Oklahoma Turnpike Authority have completed the Interjurisdictional agreements to be co-permittees in the final NPDES Municipal Permit.
Background	The Oklahoma Turnpike Authority has requested that the City amend its permit application to allow the Oklahoma Turnpike Authority to be a co-applicant and co-permittee. The City has agreed to supplement its permit application to allow the Oklahoma Turnpike Authority to be a co-applicant and co-permittee. The Oklahoma Turnpike Authority will participate in maintaining the City's storm water management program by contributing annually to cover the City's costs of program services provided by the City. The Oklahoma Turnpike Authority's share of funding shall be paid on the first day of its fiscal year, or within ten (10) days after funding becomes legally available.
Revenue	$79,766 to be paid on the first day of the fiscal year or within ten (10) days after funding becomes legally available. Revenue to be deposited in: Stormwater Drainage – Operations - Reimbursements (330-0075-43750004)
Review	Public Works Department and Municipal Counselor's Office
Recommendation:	Approve the Memorandum of Understanding
Attachment	

MEMORANDUM OF UNDERSTANDING CONCERNING THE
IMPLEMENTATION AND
ENFORCEMENT OF AN OPDES PERMIT

This Memorandum is entered into the 14 day of Nov, 2006, by and between the CITY OF OKLAHOMA CITY, hereinafter referred to as the "City" and the OKLAHOMA TURNPIKE AUTHORITY, hereinafter referred to as the "OTA."

WHEREAS, large municipalities are required to obtain an Oklahoma Pollutant Discharge Elimination System (OPDES) permit for their municipal separate storm sewer systems; and

WHEREAS, the City has submitted the mandated OPDES permit application to the Oklahoma Department of Environmental Quality, hereinafter referred to as "DEQ"; and

WHEREAS, the OTA has requested that the City amend its permit application to allow the OTA to be a co-applicant and co-permittee; and

WHEREAS, the City has agreed to supplement its permit application to allow the OTA to be a co-applicant and co-permittee,

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

1. This Memorandum becomes effective as of the above mentioned date and will remain in effect for the duration of the OPDES permit issued by the DEQ that names all parties hereto as co-applicants or co-permittees.

2. The responsibilities that each party agrees to assume under this Memorandum extend to the corporate limits of the City, but not beyond.

3. In consideration of the City agreement to supplement its submitted OPDES permit application to include the OTA to be a co-applicant, the OTA will:

   a. Comply with the City's Stormwater Management Plan.

   b. Comply with the applicable Best Management Practices (BMPs) to the Maximum Extent Practicable as submitted in the OPDES permit application inasmuch as such BMPs apply to the OTA's municipal storm sewer system (MS4) and any discharge or spill on property owned, operated or maintained by the OTA.

   c. Comply with the OPDES permit as issued by the DEQ as it relates to the OTA's MS4 and the impact of the OTA's MS4 upon the City's MS4.

d. Make available to the City research data and results including design procedures and standard details developed by the OTA as BMPs.

e. Notify the City of any suspicious activities or illicit discharges within the OTA's collection area.

f. Cooperate with the City in providing any available data such as plans that pertain to any stormwater runoff from any real property in which the OTA has an interest, control or maintenance responsibility.

g. Prior to any new construction on any real property in which the OTA has an interest, or any modification of the present facilities of any inlets for the discharge of stormwater into any of the City's drain locations, the OTA must obtain prior approval from the City. The OTA shall copy the City's Stormwater Manager with summaries of comments on reviews of "plans in hand" of each such project. The OTA shall ensure that no stormwater discharge structures are constructed on City rights-of-way without prior written approval of the City. Before the City approves stormwater discharges into City facilities, the OTA shall ensure proper measures have been taken to ensure the quality of the water and the maintenance of the facilities.

h. Coordinate and cooperate where there is a mutual concern or overlap of responsibility as submitted in the OPDES permit application.

i. Take the appropriate enforcement actions against illicit stormwater discharges, to ensure compliance with the OPDES permit. The OTA shall notify the City in writing of any enforcement actions that it takes within the boundaries of the City and shall copy the City on any report to the DEQ or other state or federal authorities.

These actions must meet DEQ regulations, requirements and goals.

j. Where the OTA stormwater collection areas are involved, the City and the OTA shall consult with each other on water quality problems attributable to a third party. Where an illegal stormwater discharge is identified or suspected, the City and the OTA will coordinate so as to arrive at a mutually acceptable response to minimize or eliminate the water quality problem.

k. Both the City and the OTA will inspect for and investigate illicit connections and discharges to their collection areas and their separate storm sewer systems. The City shall have access to OTA right-of-way to investigate water quality problems. If the investigative actions of the City will interfere with highway operations or pose a hazard to the traveling

public, the OTA will coordinate traffic control for the City at the City's request. The OTA hereby confers permission for the City to enter its rights-of-way and MS4s for any lawful purpose under this Memorandum.

l. Prohibit any connections to the City's or the OTA's MS4s without prior approval of the City.

m. Provide information needed for annual reporting not less than 60 days prior to reporting deadlines.

n. If the OTA fails to correct any condition which is the OTA's responsibility as stated in this Memorandum or as represented in the OPDES permit as approved by DEQ, within 30 days after receipt of written notice from the City, the OTA agrees to pay for the cost of maintenance or other actions taken by the City within 30 days of receipt of billing, should the City have to complete maintenance or take the action which is the OTA's responsibility as stated in this Memorandum and permits as approved by DEQ.

o. The OTA shall participate administratively in the public awareness program with the City. This cooperative effort will include the use of OTA resources to develop programs aimed at public involvement and public education.

p. The OTA will participate in maintaining the City's stormwater management program by contributing annually the sum of $79,766 to cover the City's costs of program services provided by the City. The OTA's share of funding shall be paid on the first day of its fiscal year, or within ten (10) days after funding becomes legally available.

4. The City, in consideration of the preceding paragraph, agrees to amend its OPDES permit application to include the OTA as a co-applicant.

5. Except to the extent specifically prohibited by statute, the OTA shall, as between the parties, be solely responsible for all claims and liabilities due directly or indirectly to activities or omissions of itself, its agents, employees, contractors or officers for damages, fines, costs, expenses, losses, injury to persons, damage or loss of property and injury or endangerment of species listed in the OPDES Permit. Except to the extent specifically prohibited by statute, the OTA shall, as between the parties, be solely responsible for any and all costs or expenses actually incurred by the City in defense during litigation alleging wrongful discharge or contamination by pollutants through or ancillary to stormwater discharge through negligence of the OTA, its agents, employees and/or officers. In addition the OTA shall, as between parties, be responsible for any monetary fines or penalties assessed against the City due to OPDES permit violations

stemming from discharges for which the OTA, its agents, employees and/or officers is found by administrative proceeding or court of law to be liable.

6. The OTA agrees to abide by all applicable federal, state and local laws, ordinances, and regulations pertaining to pollution control and environmental protection and including but not limited to the terms and conditions of the OPDES permit as approved by DEQ or as amended in the future.

7. Except as provided in this Memorandum, responsibility and supervision of the OTA's real property interests, including but not limited to its rights-of-way, are not assigned, assumed or surrendered by this Memorandum.

8. This Memorandum may be terminated by any of the following conditions:

   a. By mutual consent of the parties with the approval of DEQ.

   b. By either party, upon the failure of the other party to fulfill its responsibilities and obligations as set forth in this Memorandum.

   c. By either party with the approval of DEQ.

   d. By the City for failure of the OTA to perform any obligation in the OPDES permit(s) or any DEQ regulation or requirements.

Termination of this Memorandum shall extinguish all unaccrued rights, future duties, future obligations, and subsequently accruing liabilities of the City and OTA to each other under this Memorandum. The City will notify the OTA that an alleged breach of contract has occurred prior to seeking termination of this Memorandum for breach. Within a reasonable time but in no event more than 30 days from the City's written notification, the OTA must address the alleged breach or situation as outlined by the City. In the event the OTA does not address the situation in accordance with this Memorandum, the OPDES permit and applicable DEQ regulations and requirements, the City may terminate this Memorandum or suspend performance thereunder and the parties shall conclude their activities relating to this Memorandum. The OTA shall notify the City that an alleged breach of contract has occurred prior to seeking termination of this Memorandum for breach. Within a reasonable time but in no event more than 30 days from the OTA's written notification, the City must address the situation as outlined by the OTA. In the event the City does not address the alleged breach or situation in accordance with this Memorandum, the OPDES permit and applicable DEQ regulations and requirements, the OTA may terminate this Memorandum or suspend performance thereunder and the parties shall conclude their activities relating to this Memorandum.

9. Changes to the time frame, character, cost or obligations authorized hereunder shall be addressed by written amendment before additional work may be performed or additional costs incurred.

10. The City and OTA shall comply with all applicable laws and regulations, orders and final decrees of any court of final jurisdiction in any manner affecting the performance of this Memorandum. Venue shall be in the courts of Oklahoma County, Oklahoma.

11. In case one or more of the provisions contained in this Memorandum shall for any reason be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceable provision thereof in this Memorandum shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein.

12. This Memorandum contains the entire agreement between the parties hereto and no modification of this Memorandum shall be valid until it is agreed upon by the City and the OTA in writing.

13. This Memorandum constitutes the sole and only agreement of the parties hereto and supersedes any prior understanding or agreements written or oral between the City and the OTA respecting the within subject matter.

WITNESS the following signatures and seals:

THE CITY OF OKLAHOMA CITY

Mayor

City Clerk

OKLAHOMA TURNPIKE AUTHORITY

By: Chairman

Director

APPROVED AS TO FORM

Assistant Municipal Counselor

APPROVED AS TO FORM

General Counsel

P: SWQ/adm/MOU

MEMORANDUM

The City of
OKLAHOMA CITY

Council Agenda
Item No. VI. Q.
8/1/06

TO: Mayor and City Council

FROM: James D. Couch, City Manager

Memoradum of Understanding Concerning the Implementation and Enforcement of an Oklahoma Pollutant Discharge Elimination System Permit with the Oklahoma Department of Transportation, annual revenue of $176,000.

Purpose	To confirm that the City of Oklahoma City and the Oklahoma Department of Transportation have completed the interjurisdictional agreements to be co-permittees in the final NPDES Municipal Permit.
Background	Oklahoma City received the final NPDES Municipal Permit from the U.S. Environmental Protection Agency with the condition of cooperative efforts of Oklahoma Department of Transportation as owners of small portions of the Municipal Separate Storm Sewer System (MS4). Oklahoma City, as principal owner will serve as primary administrator of the program. The Environmental Protection Agency requires documentation of co-permitting terms as a provision of permit compliance.
Revenue Source	Annual Revenue of $176,000 to be paid on the first day of its fiscal year, or within ten (10) days after funding becomes legally available. 330-0075-43750004
Review	Public Works Department and the Municipal Counselor's Office.

Recommendation: Approve the Memorandum of Understanding

Attachment

RLM\bu\agenda\OPDES.Co-Permit

MEMORANDUM OF UNDERSTANDING
CONCERNING THE IMPLEMENTATION AND
ENFORCEMENT OF AN OPDES PERMIT

This Agreement is entered into the 1st day of June, 2006, by and between the CITY OF OKLAHOMA CITY, hereinafter referred to as the "City" and the STATE OF OKLAHOMA, acting by and through the OKLAHOMA DEPARTMENT OF TRANSPORTATION, hereinafter referred to as the "ODOT".

WHEREAS, large municipalities are required to obtain an Oklahoma Pollutant Discharge Elimination System (OPDES) permit for their municipal separate storm sewer systems; and

WHEREAS, the City has submitted the mandated OPDES permit application to the Oklahoma Department of Environmental Quality, hereinafter referred to as "DEQ"; and

WHEREAS, the ODOT has requested that the City amend its permit application to allow the ODOT to be a co-applicant and co-permittee; and

WHEREAS, the City has agreed to supplement its permit application to allow the ODOT to be a co-applicant and co-permittee,

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

1. This Agreement becomes effective as of the above mentioned date and will remain in effect for the duration of the OPDES permit issued by the DEQ that names all parties hereto as co-applicants or co-permittees.

2. The responsibilities that each party agrees to assume under this Agreement extend to the corporate limits of the City, but not beyond.

3. In consideration of the City agreement to supplement its submitted OPDES permit application to include the ODOT to be a co-applicant, the ODOT will:

   a. Comply with the City's Stormwater Management Plan.

   b. Comply with the applicable Best Management Practices (BMPs) to the Maximum Extent Practicable as submitted in the OPDES permit application inasmuch as such BMPs apply to the ODOT's municipal separate storm sewer system (MS4) and any discharge or spill on property owned, operated or maintained by the ODOT.

c. Comply with the OPDES permit as issued by the DEQ, as it relates to the ODOT's MS4 and the impact of the ODOT's MS4 upon the City's MS4.

d. Make available to the City research data and results including design procedures and standard details developed by the ODOT as BMPs.

e. Notify the City of any suspicious activities or illicit discharges within the ODOT's collection area.

f. Cooperate with the City in providing any available data such as plans that pertain to any stormwater runoff from any real property in which the ODOT has an interest, control or maintenance responsibility.

g. Prior to any new construction on any real property in which the ODOT has an interest, or any modification of the present facilities of any inlets for the discharge of stormwater into any of the City's drain locations, the ODOT must obtain prior approval from the City. The ODOT shall copy the City's Stormwater Manager with summaries of comments on reviews of "plans in hand" of each such project. The ODOT shall ensure that no stormwater discharge structures are constructed on City rights-of-way without prior written approval of the City. Before the City approves stormwater discharges into City facilities, the ODOT shall ensure proper measures have been taken to ensure the quality of the water and the maintenance of the facilities.

h. Coordinate and cooperate where there is a mutual concern or overlap of responsibility under this Agreement.

i. Take the appropriate enforcement actions against illicit stormwater discharges, to ensure compliance with the OPDES permit. The ODOT shall notify the City in writing of any enforcement actions that it takes within the boundaries of the City and shall copy the City on any report to the DEQ or other state or federal authorities.

These actions must meet DEQ regulations, requirements and goals.

j. Where the ODOT stormwater collection areas are involved, the City and the ODOT shall consult with each other on water quality problems attributable to a third party. Where an illegal stormwater discharge is identified or suspected, the City and the ODOT will coordinate so as to arrive at a mutually acceptable response to minimize or eliminate the water quality problem.

k. Both the City and the ODOT will inspect for and investigate illicit connections and discharges to their collection areas and their separate storm sewer systems. The City shall have access to ODOT right-of-way to

investigate water quality problems. If the investigative actions of the City will interfere with highway operations or pose a hazard to the traveling public, the ODOT will provide traffic control for the City at the City's request. The ODOT hereby confers permission for the City to enter its rights-of-way and MS4s for any lawful purpose under this Agreement.

l. Prohibit any connections to the City's or the ODOT's MS4s without prior approval of the City.

m. Provide information needed for annual reporting not less than 60 days prior to reporting deadlines.

n. If the ODOT fails to correct any condition which is the ODOT's responsibility as stated in this Agreement or as represented in the OPDES permit as approved by DEQ, within 30 days after receipt of written notice from the City, the ODOT agrees to pay for the cost of maintenance or other actions taken by the City within 30 days of receipt of billing, should the City have to complete maintenance or take the action which is the ODOT's responsibility as stated in this Agreement and permits as approved by DEQ.

o. The ODOT shall participate administratively in the public awareness program with the City. This cooperative effort will include the use of ODOT resources to develop programs aimed at public involvement and public education.

p. The ODOT will participate in maintaining the City's stormwater management program by contributing annually the sum of $176,000 to cover the City's costs of program services provided by the City. The ODOT's share of funding shall be paid on the first day of its fiscal year, or within ten (10) days after funding becomes legally available.

4. The City, in consideration of the preceding paragraph, agrees to amend its OPDES permit application to include the ODOT as a co-applicant.

5. Except to the extent specifically prohibited by statute, the ODOT shall, as between the parties, be solely responsible for all claims and liabilities due directly or indirectly to activities or omissions of itself, its agents, employees, contractors or officers for damages, fines, costs, expenses, losses, injury to persons, damage or loss of property and injury or endangerment of species listed in the OPDES Permit. Except to the extent specifically prohibited by statute, the ODOT shall, as between the parties, be solely responsible for any and all costs or expenses actually incurred by the City in defense during litigation alleging wrongful discharge or contamination by pollutants through or ancillary to stormwater discharge through negligence of the ODOT, its agents, employees and/or officers. In addition the ODOT shall, as between parties, be responsible for any monetary

fines or penalties assessed against the City due to OPDES permit violations stemming from discharges for which the ODOT, its agents, employees and/or officers is found by administrative proceeding or court of law to be liable and only as to that portion or percentage as may be found during such administrative or court proceeding, that the State, its agents, employees and/or officers was a contributor in violation of this Agreement, the OPDES permit or permits or OPDES application or from property which is owned or controlled by the State.

6. The ODOT agrees to abide by all applicable federal, state and local laws, ordinances, and regulations pertaining to pollution control and environmental protection and including but not limited to the terms and conditions of the OPDES permit as approved by DEQ, or as amended in the future.

7. Except as provided in this Agreement, responsibility and supervision of the ODOT's real property interests, including but not limited to its rights-of-way, are not assigned, assumed or surrendered by this Agreement.

8. This Agreement may be terminated by any of the following conditions:

   a. By mutual consent of the parties with the approval of DEQ.

   b. By either party, upon the failure of the other party to fulfill its responsibilities and obligations as set forth in this Agreement.

   c. By either party with the approval of DEQ.

   d. By the City for failure of the ODOT to perform any obligation in the OPDES permit(s) or any DEQ regulation or requirements.

Termination of this Agreement shall extinguish all unaccrued rights, future duties, future obligations, and subsequently accruing liabilities of the City and ODOT to each other under this Agreement. The City will notify the ODOT that an alleged breach of contract has occurred prior to seeking termination of this Agreement for breach. Within a reasonable time but in no event more than 30 days from the City's written notification, the ODOT must address the alleged breach or situation as outlined by the City. In the event the ODOT does not address the situation in accordance with this Agreement, the OPDES permit and applicable DEQ regulations and requirements, the City may terminate this Agreement or suspend performance thereunder and the parties shall conclude their activities relating to this Agreement. The ODOT shall notify the City that an alleged breach of contract has occurred prior to seeking termination of this Agreement for breach. Within a reasonable time but in no event more than 30 days from the ODOT's written notification, the City must address the situation as outlined by the ODOT. In the event the City does not address the alleged breach or situation in accordance with this Agreement, the OPDES permit and applicable DEQ regulations and requirements, the ODOT may terminate this Agreement or suspend performance

thereunder and the parties shall conclude their activities relating to this Agreement.

9. Changes to the time frame, character, cost or obligations authorized hereunder shall be addressed by written amendment before additional work may be performed or additional costs incurred.

10. The City and the ODOT shall comply with all applicable laws and regulations, orders and final decrees of any court of final jurisdiction in any manner affecting the performance of this Agreement. Venue shall be in the courts of Oklahoma County, Oklahoma.

11. In case one or more of the provisions contained in this Agreement shall for any reason be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceable provision thereof in this Agreement shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein.

12. This Agreement contains the entire agreement between the parties hereto and no modification of this Agreement shall be valid until it is agreed upon by the City and the ODOT in writing.

13. This Agreement constitutes the sole and only agreement of the parties hereto and supersedes any prior understanding or agreements written or oral between the City and the ODOT respecting the within subject matter.

THE REMAINER OF THIS PAGE IS INTENTIONALLY LEFT BLANK.

WITNESS the following signatures and seals:

THE CITY OF OKLAHOMA CITY

SEAL OF THE CITY OF OKLAHOMA CITY

Mayor

City Clerk

APPROVED AS TO FORM

Assistant Municipal Counselor

STATE OF OKLAHOMA, acting by and through the OKLAHOMA DEPARTMENT OF TRANSPORTATION

By: Director

APPROVED AS TO FORM

General Counsel

P: SWQ/BrendaU/Word/mou odot

City of Bethany
OFFICE OF THE MAYOR

SHANNON N. LLOYD, MAYOR
PO Box 219 / 6700 NW 36th St
Bethany OK 73008 / (405) 981-9561
www.cityofbethany.org

May 7, 2024

City of Oklahoma City
Debbie Miller, Public Works Director
3738 SW 15th St, Bldg 1
Oklahoma City OK 73108

Dear Ms. Miller:

The City of Bethany desires to renew the Inter-Governmental Agreement with the City of Oklahoma City concerning household hazardous waste disposal for the year ending June 30, 2025.

Thank you for your kind assistance in this matter.

Sincerely,

Shannon N. Lloyd
Mayor

An Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management Project (the Project)

THIS AGREEMENT, made and entered into this the **21st** day of **June**, 20**16**, by, between and among City of Bethany (hereinafter referred to as "Participant" or "Participants") and The City of Oklahoma City (hereinafter referred to as "Oklahoma City").

WITNESSETH:

WHEREAS, the parties, referenced above, with The City of Oklahoma City acting as Lead Party, have resolved to enter into this Agreement to define the participation and expectations of each party and to coordinate the collection and management of household hazardous waste (HHW) and the implementation of a joint program; and

WHEREAS, the EPA Clean Water Act of 1987 requires the establishment of Hazardous Waste Collection and Disposal Programs for MS4 permits; and

WHEREAS, hazardous household waste is "a waste which would be chemically or physically classified as a hazardous waste but is excluded from regulation as a hazardous waste pursuant to the regulations of the Environment Protect Agency because it is generated by a household;" such HHW consisting of numerous products common to the average household, such as pesticides, paints, polishes, cleaners, and automotive supplies; and

WHEREAS, each party to this Agreement has independently researched the possible benefits and obligations of participating in and coordinate activities under the Project; and

WHEREAS, each party has determined that a regional cooperative HHW Education, Collection and Management Project will provide increased convenience/participation and possibly result in a lower cost per participant and cost savings to all parties; and

NOW, THEREFORE, in consideration of the mutual goals and covenants contained herein, and the mutual benefits to result therefrom, the parties agree as follows,

1. The purpose of this Agreement is to establish a Regional HHW Collection and Management Project to affect cost savings, increase public convenience and participation, and educate the public about the proper management of HHW.

2. The term of this Agreement shall commence upon its effective date and conclude June 30, 2017 (which term shall be referred to as the "Initial Term" or the "Demonstration Period").

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK

3. Each Participant shall have the right to terminate its participation under this Agreement at any time during the term of the Agreement for any reason, including, but not limited to, its own convenience. If any Participant under this Agreement elects to withdraw or terminate its participation under the Agreement prior to June 30, 2017, the withdrawing Party shall give Oklahoma City thirty (30) days prior written notice of the termination. Any Participant withdrawing from this Agreement must meet all financial commitments and other obligations up to the point of the termination or withdrawal. Withdrawal or termination shall not be effective until all financial commitments and other obligations shall be satisfied.

4. Each Participant may independently renew this Agreement beyond the Initial Term upon mutual agreement of Oklahoma City and the renewing Participant. Request for renewal shall be in the form of a letter from the authorized representative of the Participant must be received in July and may be accepted by the City Public Works Director on behalf of Oklahoma City. Each such renewal shall be for one fiscal year, July 1 to the following June 30. Provided however that no Participant in arrears in payment of charges for services render pursuant to this Agreement shall be permitted to renew this Agreement.

5. The City of Oklahoma City agrees to accept HHW from residents of Participant, with the understanding that The City of Oklahoma will maintain an accounting of these cross-jurisdictional amounts and reimbursement for their management. The residents will be required to comply with ordinances and policies for the disposition of HHW established by Oklahoma City, as may be amended from time to time.

6. The City of Oklahoma City, will bill each Participant (the city or county from which a participating **resident** has originated as such proof of residency is presented to Oklahoma City) separately after each collection occurrence and the participating Party will reimburse Oklahoma City in accordance with the terms of this Agreement. The Participant hereby agrees to establish and/or encumber funding for this Agreement and the services to be provided, and to timely pay for services provided. The Participant agrees that Oklahoma City may but is not required to inquire or investigate the residency of any person dropping off HHW beyond the address on the resident's driver's license.

7. Billings are considered due forty-five (45) calendar days after issuance of billing. If payment is not received by the due date a ten (10%) percent late fee will be assessed to the Participant and service to residents of any delinquent Participants will be subject to termination ninety (90) calendar days after the bill issuance date.

8. Oklahoma City shall assess a rate (based on national surveys) per equivalent rate unit (ERU) of fifteen (15) gallons per household. The fee structure per each resident per arrival or entry shall be evaluated by the following scale:

≤ 7.5 gallons	.5 ERU	$ 39.50
> 7.5 gallons to 15 gallons	1.0 ERU	$ 79.00
> 15 gallons to 22.5 gallons	1.5 ERU	$118.50
> 22.5 gallons	2.0 ERU	$158.00

[Note:] Minimum charge per vehicle per arrival = .5 ERU
Maximum charge per vehicle per arrival = 2.0 ERU

9. Pursuant to the permit issued by the Oklahoma Department of Environmental Quality, Oklahoma City is prohibited from taking any waste other than products expressly produced for home use. No commercial products will be accepted. No products from commercial business or institutions will be accepted. No products from commercial vehicles shall be accepted.

10. This Agreement shall be deemed effective and legally binding upon execution by each of the parties hereto.

11. This Agreement may be amended upon the mutual agreement of the parties or their authorized representatives.

12. All notices required to be given hereunder, shall be in writing and shall be: delivered in person (and a confirming copy sent by first class mail); or shall be mailed by registered mail; or delivered by facsimile with a return receipt showing delivery (and a confirming copy sent by first class mail), to the following addresses:

(a) Notices to Oklahoma City:
City Clerk
The City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, Oklahoma 73102

and

Public Works Department
Storm Water Quality Manager
420 West Main Street, 3th Floor
Oklahoma City, Oklahoma 73102

(b) Notices to the Participant:

The parties may hereafter designate, in writing and as provided herein, other or different persons or addresses for receipt of notice.

13. When any word in this Agreement is used in the singular number, it shall include the plural and the plural, the singular, except where contrary intention plainly appears. When any word is used in the masculine, it shall include the feminine, and the feminine, the masculine, except where a contrary intention plainly appears.

14. The parties hereto, acting under authority of their respective governing bodies, have caused this Agreement to be executed in multiple counterparts, each of which shall constitute an original.

15. The parties hereto agree that it is not their intent to create any rights or benefits to any third parties and that no third party beneficiaries shall be created or shall be deemed to be created by this Agreement.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

16. The parties hereto agree to abide by the applicable and constitutionally valid laws of the State of Oklahoma and the United States of America. The parties further agree that any action to enforce the provisions of this Agreement or any dispute over the interpretation of this Agreement shall be resolved and in a court of competent jurisdiction in Oklahoma County, Oklahoma.

17. This is the complete Agreement between the parties and no statements, representations or discussions not set forth herein shall be binding upon the parties and no party is or shall be bound by any statement or representation that does not conform with this document. No agent or any party to this Agreement has authority to alter, modify or change this Agreement except as expressly provided herein. This Agreement shall be read as a whole and shall not be interpreted either for or against any party. This Agreement may only be amended in writing as approved and executed by all parties hereto.

18. Time shall be deemed to be of the essence of this Agreement.

19. A breach of any provision of this Agreement shall be deemed to be a breach of the entire Agreement provided however the breaching party or parties shall be given thirty (30) days notice as provided herein during which to cure any breach prior to the termination of this Agreement. Provided however, the failure of any party hereto to provide notice of a breach of this Agreement shall not be deemed a waiver of that breach or any subsequent breach of a similar or different kind or nature.

20. A determination that any provision or application of any provision of this Agreement to any party is prohibited or contrary to law shall be limited to the specific language and/or party so construed, and shall not effect the validity of the remaining provisions of the Agreement or its binding effect on any other party or parties.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

Approved and executed by _____ this 17th day of May,
(Participant)
20 16.

_____
(Participant)

ATTEST: (Seal)

CITY OF BETHANY CORPORATE SEAL OKLAHOMA

Mayor

Clerk

Approved and executed by The City of Oklahoma City this 21st day of June,
20 16.

THE CITY OF OKLAHOMA CITY

Mayor

ATTEST: (Seal)

SEAL OF THE CITY OF OKLAHOMA CITY

City Clerk

REVIEWED for form and legality.

Assistant Municipal Counselor

P:\Other Cities\Intergovernmental Agreement

EDMOND
PW
PUBLIC WORKS

May 28, 2024

Ms. Debbie Miller, Public Works Director
City of Oklahoma City
Household Hazardous Waste Facility
3738 SW 15th. Building #1
Oklahoma City, OK 73108
Attention: Brenda Underwood

Re: City of Edmond Public Works Authority/City of Oklahoma City
Inter-Governmental Agreement – Hazardous Waste, as updated 6/21/16.

The term of the above-cited Agreement will conclude June 30, 2024. According to Article 4 of the Agreement, each Participant may request a renewal, which would be for one fiscal year beginning July 1 to the following June 30. We hereby request a renewal of this Agreement under the same terms and conditions as imposed under terms of the current Agreement. The term for this renewal would be from July 1, 2024, to June 30, 2025.

On May 28, 2024, the Edmond Public Work Authority approved renewal of this Agreement upon concurrence of the City of Oklahoma City.

We appreciate the opportunity to participate in an effort to protect the metro community's environment, and if we are in mutual agreement as to the terms of a renewal, please forward your approval.

Sincerely,

Darrell Davis, Chairman
Edmond Public Works Authority

cc: Keith Stewart,
Edmond Director Public Works
Bobby Masterson,
Assistant Director of Public Works

City of Edmond
Dept. of Public Works
2004 Old Timbers Drive
Edmond, OK 73034

Office (405) 216-7770
Fax (405) 216-7619

www.edmondok.com

An Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management Project (the Project)

THIS AGREEMENT, made and entered into this the **21st** day of **June**, 20**16**, by, between and among City of Edmond (hereinafter referred to as "Participant" or "Participants") and The City of Oklahoma City (hereinafter referred to as "Oklahoma City").

WITNESSETH:

WHEREAS, the parties, referenced above, with The City of Oklahoma City acting as Lead Party, have resolved to enter into this Agreement to define the participation and expectations of each party and to coordinate the collection and management of household hazardous waste (HHW) and the implementation of a joint program; and

WHEREAS, the EPA Clean Water Act of 1987 requires the establishment of Hazardous Waste Collection and Disposal Programs for MS4 permits; and

WHEREAS, hazardous household waste is "a waste which would be chemically or physically classified as a hazardous waste but is excluded from regulation as a hazardous waste pursuant to the regulations of the Environment Protect Agency because it is generated by a household;" such HHW consisting of numerous products common to the average household, such as pesticides, paints, polishes, cleaners, and automotive supplies; and

WHEREAS, each party to this Agreement has independently researched the possible benefits and obligations of participating in and coordinate activities under the Project; and

WHEREAS, each party has determined that a regional cooperative HHW Education, Collection and Management Project will provide increased convenience/participation and possibly result in a lower cost per participant and cost savings to all parties; and

NOW, THEREFORE, in consideration of the mutual goals and covenants contained herein, and the mutual benefits to result therefrom, the parties agree as follows,

1. The purpose of this Agreement is to establish a Regional HHW Collection and Management Project to affect cost savings, increase public convenience and participation, and educate the public about the proper management of HHW.

2. The term of this Agreement shall commence upon its effective date and conclude June 30, 2017 (which term shall be referred to as the "Initial Term" or the "Demonstration Period").

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK

3. Each Participant shall have the right to terminate its participation under this Agreement at any time during the term of the Agreement for any reason, including, but not limited to, its own convenience. If any Participant under this Agreement elects to withdraw or terminate its participation under the Agreement prior to June 30, 2017, the withdrawing Party shall give Oklahoma City thirty (30) days prior written notice of the termination. Any Participant withdrawing from this Agreement must meet all financial commitments and other obligations up to the point of the termination or withdrawal. Withdrawal or termination shall not be effective until all financial commitments and other obligations shall be satisfied.

4. Each Participant may independently renew this Agreement beyond the Initial Term upon mutual agreement of Oklahoma City and the renewing Participant. Request for renewal shall be in the form of a letter from the authorized representative of the Participant must be received in July and may be accepted by the City Public Works Director on behalf of Oklahoma City. Each such renewal shall be for one fiscal year, July 1 to the following June 30. Provided however that no Participant in arrears in payment of charges for services render pursuant to this Agreement shall be permitted to renew this Agreement.

5. The City of Oklahoma City agrees to accept HHW from residents of Participant, with the understanding that The City of Oklahoma will maintain an accounting of these cross-jurisdictional amounts and reimbursement for their management. The residents will be required to comply with ordinances and policies for the disposition of HHW established by Oklahoma City, as may be amended from time to time.

6. The City of Oklahoma City, will bill each Participant (the city or county from which a participating **resident** has originated as such proof of residency is presented to Oklahoma City) separately after each collection occurrence and the participating Party will reimburse Oklahoma City in accordance with the terms of this Agreement. The Participant hereby agrees to establish and/or encumber funding for this Agreement and the services to be provided, and to timely pay for services provided. The Participant agrees that Oklahoma City may but is not required to inquire or investigate the residency of any person dropping off HHW beyond the address on the resident's driver's license.

7. Billings are considered due forty-five (45) calendar days after issuance of billing. If payment is not received by the due date a ten (10%) percent late fee will be assessed to the Participant and service to residents of any delinquent Participants will be subject to termination ninety (90) calendar days after the bill issuance date.

8. Oklahoma City shall assess a rate (based on national surveys) per equivalent rate unit (ERU) of fifteen (15) gallons per household. The fee structure per each resident per arrival or entry shall be evaluated by the following scale:

≤ 7.5 gallons	.5 ERU	$ 39.50
> 7.5 gallons to 15 gallons	1.0 ERU	$ 79.00
> 15 gallons to 22.5 gallons	1.5 ERU	$118.50
> 22.5 gallons	2.0 ERU	$158.00

[Note:] **Minimum charge per vehicle per arrival = .5 ERU**
Maximum charge per vehicle per arrival = 2.0 ERU

9. Pursuant to the permit issued by the Oklahoma Department of Environmental Quality, Oklahoma City is prohibited from taking any waste other than products expressly produced for home use. No commercial products will be accepted. No products from commercial business or institutions will be accepted. No products from commercial vehicles shall be accepted.

10. This Agreement shall be deemed effective and legally binding upon execution by each of the parties hereto.

11. This Agreement may be amended upon the mutual agreement of the parties or their authorized representatives.

12. All notices required to be given hereunder, shall be in writing and shall be: delivered in person (and a confirming copy sent by first class mail); or shall be mailed by registered mail; or delivered by facsimile with a return receipt showing delivery (and a confirming copy sent by first class mail), to the following addresses:

(a) Notices to Oklahoma City:
City Clerk
The City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, Oklahoma 73102

and

Public Works Department
Storm Water Quality Manager
420 West Main Street, 3th Floor
Oklahoma City, Oklahoma 73102

(b) Notices to the Participant:

The parties may hereafter designate, in writing and as provided herein, other or different persons or addresses for receipt of notice.

13. When any word in this Agreement is used in the singular number, it shall include the plural and the plural, the singular, except where contrary intention plainly appears. When any word is used in the masculine, it shall include the feminine, and the feminine, the masculine, except where a contrary intention plainly appears.

14. The parties hereto, acting under authority of their respective governing bodies, have caused this Agreement to be executed in multiple counterparts, each of which shall constitute an original.

15. The parties hereto agree that it is not their intent to create any rights or benefits to any third parties and that no third party beneficiaries shall be created or shall be deemed to be created by this Agreement.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

16. The parties hereto agree to abide by the applicable and constitutionally valid laws of the State of Oklahoma and the United States of America. The parties further agree that any action to enforce the provisions of this Agreement or any dispute over the interpretation of this Agreement shall be resolved and in a court of competent jurisdiction in Oklahoma County, Oklahoma.

17. This is the complete Agreement between the parties and no statements, representations or discussions not set forth herein shall be binding upon the parties and no party is or shall be bound by any statement or representation that does not conform with this document. No agent or any party to this Agreement has authority to alter, modify or change this Agreement except as expressly provided herein. This Agreement shall be read as a whole and shall not be interpreted either for or against any party. This Agreement may only be amended in writing as approved and executed by all parties hereto.

18. Time shall be deemed to be of the essence of this Agreement.

19. A breach of any provision of this Agreement shall be deemed to be a breach of the entire Agreement provided however the breaching party or parties shall be given thirty (30) days notice as provided herein during which to cure any breach prior to the termination of this Agreement. Provided however, the failure of any party hereto to provide notice of a breach of this Agreement shall not be deemed a waiver of that breach or any subsequent breach of a similar or different kind or nature.

20. A determination that any provision or application of any provision of this Agreement to any party is prohibited or contrary to law shall be limited to the specific language and/or party so construed, and shall not effect the validity of the remaining provisions of the Agreement or its binding effect on any other party or parties.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

Approved and executed by Edmond Public Works Authority this 23 day of May
(Participant)
20 16.

EDMOND PUBLIC WORKS AUTHORITY

(Participant)

ATTEST: (Seal)

Clerk

Mayor

Approved and executed by The City of Oklahoma City this **21st** day of **June**
20**16** .

THE CITY OF OKLAHOMA CITY

ATTEST: (Seal)

SEAL OF THE CITY OF OKLAHOMA CITY

Mayor

City Clerk

REVIEWED for form and legality.

Assistant Municipal Counselor

P:\Other Cities\Intergovernmental Agreement

The City of El Reno
Where History Meets the Future

May 6, 2024

City of Oklahoma City, Oklahoma
Household Hazardous Waste Facility
3738 SW 15th
Building No. 1
Oklahoma City, OK 73108

Re: City of El Reno/City of Oklahoma City: Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management.

The term of the above-cited Agreement will conclude on June 30, 2024. According to Article 4 of the Agreement, each participant may request a renewal, which would be for one fiscal year beginning July 1 to the following June 30. We hereby request a renewal of this Agreement under the same terms and conditions as imposed under terms of the current Agreement. The term for this renewal would be from July 1, 2024 to June 30, 2025.

We appreciate the opportunity to participate in an effort to protect the environment in our area, and if we are in mutual agreement as to the terms of a renewal, please forward your approval.

Sincerely,

Steve Jensen
Mayor – El Reno, Oklahoma

Cc: Matt Sandidge – City Manager
Lindsey Grigg-Moak – City Clerk
Tim Young – Assistant City Manager/Finance Director

(405) 295-9310 • P.O. Drawer 700 • El Reno, Oklahoma 73036

An Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management Project (the Project)

THIS AGREEMENT, made and entered into this the **21st** day of **June**, 20**16**, by, between and among City of El Reno (hereinafter referred to as "Participant" or "Participants") and The City of Oklahoma City (hereinafter referred to as "Oklahoma City").

WITNESSETH:

WHEREAS, the parties, referenced above, with The City of Oklahoma City acting as Lead Party, have resolved to enter into this Agreement to define the participation and expectations of each party and to coordinate the collection and management of household hazardous waste (HHW) and the implementation of a joint program; and

WHEREAS, the EPA Clean Water Act of 1987 requires the establishment of Hazardous Waste Collection and Disposal Programs for MS4 permits; and

WHEREAS, hazardous household waste is "a waste which would be chemically or physically classified as a hazardous waste but is excluded from regulation as a hazardous waste pursuant to the regulations of the Environment Protect Agency because it is generated by a household;" such HHW consisting of numerous products common to the average household, such as pesticides, paints, polishes, cleaners, and automotive supplies; and

WHEREAS, each party to this Agreement has independently researched the possible benefits and obligations of participating in and coordinate activities under the Project; and

WHEREAS, each party has determined that a regional cooperative HHW Education, Collection and Management Project will provide increased convenience/participation and possibly result in a lower cost per participant and cost savings to all parties; and

NOW, THEREFORE, in consideration of the mutual goals and covenants contained herein, and the mutual benefits to result therefrom, the parties agree as follows,

1. The purpose of this Agreement is to establish a Regional HHW Collection and Management Project to affect cost savings, increase public convenience and participation, and educate the public about the proper management of HHW.

2. The term of this Agreement shall commence upon its effective date and conclude June 30, 2017 (which term shall be referred to as the "Initial Term" or the "Demonstration Period").

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK

3. Each Participant shall have the right to terminate its participation under this Agreement at any time during the term of the Agreement for any reason, including, but not limited to, its own convenience. If any Participant under this Agreement elects to withdraw or terminate its participation under the Agreement prior to June 30, 2017, the withdrawing Party shall give Oklahoma City thirty (30) days prior written notice of the termination. Any Participant withdrawing from this Agreement must meet all financial commitments and other obligations up to the point of the termination or withdrawal. Withdrawal or termination shall not be effective until all financial commitments and other obligations shall be satisfied.

4. Each Participant may independently renew this Agreement beyond the Initial Term upon mutual agreement of Oklahoma City and the renewing Participant. Request for renewal shall be in the form of a letter from the authorized representative of the Participant must be received in July and may be accepted by the City Public Works Director on behalf of Oklahoma City. Each such renewal shall be for one fiscal year, July 1 to the following June 30. Provided however that no Participant in arrears in payment of charges for services render pursuant to this Agreement shall be permitted to renew this Agreement.

5. The City of Oklahoma City agrees to accept HHW from residents of Participant, with the understanding that The City of Oklahoma will maintain an accounting of these cross-jurisdictional amounts and reimbursement for their management. The residents will be required to comply with ordinances and policies for the disposition of HHW established by Oklahoma City, as may be amended from time to time.

6. The City of Oklahoma City, will bill each Participant (the city or county from which a participating **resident** has originated as such proof of residency is presented to Oklahoma City) separately after each collection occurrence and the participating Party will reimburse Oklahoma City in accordance with the terms of this Agreement. The Participant hereby agrees to establish and/or encumber funding for this Agreement and the services to be provided, and to timely pay for services provided. The Participant agrees that Oklahoma City may but is not required to inquire or investigate the residency of any person dropping off HHW beyond the address on the resident's driver's license.

7. Billings are considered due forty-five (45) calendar days after issuance of billing. If payment is not received by the due date a ten (10%) percent late fee will be assessed to the Participant and service to residents of any delinquent Participants will be subject to termination ninety (90) calendar days after the bill issuance date.

8. Oklahoma City shall assess a rate (based on national surveys) per equivalent rate unit (ERU) of fifteen (15) gallons per household. The fee structure per each resident per arrival or entry shall be evaluated by the following scale:

≤ 7.5 gallons	.5 ERU	$ 39.50
> 7.5 gallons to 15 gallons	1.0 ERU	$ 79.00
> 15 gallons to 22.5 gallons	1.5 ERU	$118.50
> 22.5 gallons	2.0 ERU	$158.00

[Note:] **Minimum charge per vehicle per arrival = .5 ERU**
Maximum charge per vehicle per arrival = 2.0 ERU

9. Pursuant to the permit issued by the Oklahoma Department of Environmental Quality, Oklahoma City is prohibited from taking any waste other than products expressly produced for home use. No commercial products will be accepted. No products from commercial business or institutions will be accepted. No products from commercial vehicles shall be accepted.

10. This Agreement shall be deemed effective and legally binding upon execution by each of the parties hereto.

11. This Agreement may be amended upon the mutual agreement of the parties or their authorized representatives.

12. All notices required to be given hereunder, shall be in writing and shall be: delivered in person (and a confirming copy sent by first class mail); or shall be mailed by registered mail; or delivered by facsimile with a return receipt showing delivery (and a confirming copy sent by first class mail), to the following addresses:

(a) Notices to Oklahoma City:
City Clerk
The City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, Oklahoma 73102

and

Public Works Department
Storm Water Quality Manager
420 West Main Street, 3th Floor
Oklahoma City, Oklahoma 73102

(b) Notices to the Participant:

The parties may hereafter designate, in writing and as provided herein, other or different persons or addresses for receipt of notice.

13. When any word in this Agreement is used in the singular number, it shall include the plural and the plural, the singular, except where contrary intention plainly appears. When any word is used in the masculine, it shall include the feminine, and the feminine, the masculine, except where a contrary intention plainly appears.

14. The parties hereto, acting under authority of their respective governing bodies, have caused this Agreement to be executed in multiple counterparts, each of which shall constitute an original.

15. The parties hereto agree that it is not their intent to create any rights or benefits to any third parties and that no third party beneficiaries shall be created or shall be deemed to be created by this Agreement.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

16. The parties hereto agree to abide by the applicable and constitutionally valid laws of the State of Oklahoma and the United States of America. The parties further agree that any action to enforce the provisions of this Agreement or any dispute over the interpretation of this Agreement shall be resolved and in a court of competent jurisdiction in Oklahoma County, Oklahoma.

17. This is the complete Agreement between the parties and no statements, representations or discussions not set forth herein shall be binding upon the parties and no party is or shall be bound by any statement or representation that does not conform with this document. No agent or any party to this Agreement has authority to alter, modify or change this Agreement except as expressly provided herein. This Agreement shall be read as a whole and shall not be interpreted either for or against any party. This Agreement may only be amended in writing as approved and executed by all parties hereto.

18. Time shall be deemed to be of the essence of this Agreement.

19. A breach of any provision of this Agreement shall be deemed to be a breach of the entire Agreement provided however the breaching party or parties shall be given thirty (30) days notice as provided herein during which to cure any breach prior to the termination of this Agreement. Provided however, the failure of any party hereto to provide notice of a breach of this Agreement shall not be deemed a waiver of that breach or any subsequent breach of a similar or different kind or nature.

20. A determination that any provision or application of any provision of this Agreement to any party is prohibited or contrary to law shall be limited to the specific language and/or party so construed, and shall not effect the validity of the remaining provisions of the Agreement or its binding effect on any other party or parties.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

Approved and executed by City of El Reno (Participant) this 10 day of May, 20 16.

City of El Reno
(Participant)

Mayor

CITY OF EL RENO OKLAHOMA OFFICIAL SEAL OKLAHOMA

ATTEST: (Seal)

Clerk

Approved and executed by The City of Oklahoma City this 21st day of June, 20 16.

THE CITY OF OKLAHOMA CITY

Mayor

SEAL OF THE CITY OF OKLAHOMA CITY

ATTEST: (Seal)

City Clerk

REVIEWED for form and legality.

Craig Keith

El Reno ~~Assistant~~ Municipal Counselor

P:\Other Cities\Intergovernmental Agreement

City of Moore
Oklahoma

301 N. Broadway, Moore, OK 73160 | (405) 793-5000 | www.cityofmoore.com

May 9, 2024

Ms. Debbie Miller
OKC Public Works Director
c/o Leaita Herndon, Admin Coordinator
3738 SW 15th Street, Building 1
Oklahoma City, OK 73108

Re: Household Hazardous Waste Collection
Inter-Governmental Agreement

Dear Ms. Miller,

As provided in the approved 2016 Intergovernmental Agreement for the collection and disposal of household hazardous waste, the City of Moore is respectfully requesting a one-year renewal for the 2024-25 Fiscal Year under the same terms and conditions as the current agreement.

If you should need additional information to process this request, please do not hesitate to contact me.

Respectfully,

Mark Hamm
Mayor

An Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management Project (the Project)

THIS AGREEMENT, made and entered into this the 21st day of June, 20 16 by, between and among THE City of Moore (hereinafter referred to as "Participant" or "Participants") and The City of Oklahoma City (hereinafter referred to as "Oklahoma City").

WITNESSETH:

WHEREAS, the parties, referenced above, with The City of Oklahoma City acting as Lead Party, have resolved to enter into this Agreement to define the participation and expectations of each party and to coordinate the collection and management of household hazardous waste (HHW) and the implementation of a joint program; and

WHEREAS, the EPA Clean Water Act of 1987 requires the establishment of Hazardous Waste Collection and Disposal Programs for MS4 permits; and

WHEREAS, hazardous household waste is "a waste which would be chemically or physically classified as a hazardous waste but is excluded from regulation as a hazardous waste pursuant to the regulations of the Environment Protect Agency because it is generated by a household;" such HHW consisting of numerous products common to the average household, such as pesticides, paints, polishes, cleaners, and automotive supplies; and

WHEREAS, each party to this Agreement has independently researched the possible benefits and obligations of participating in and coordinate activities under the Project; and

WHEREAS, each party has determined that a regional cooperative HHW Education, Collection and Management Project will provide increased convenience/participation and possibly result in a lower cost per participant and cost savings to all parties; and

NOW, THEREFORE, in consideration of the mutual goals and covenants contained herein, and the mutual benefits to result therefrom, the parties agree as follows,

1. The purpose of this Agreement is to establish a Regional HHW Collection and Management Project to affect cost savings, increase public convenience and participation, and educate the public about the proper management of HHW.

2. The term of this Agreement shall commence upon its effective date and conclude June 30, 2017 (which term shall be referred to as the "Initial Term" or the "Demonstration Period").

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK

3. Each Participant shall have the right to terminate its participation under this Agreement at any time during the term of the Agreement for any reason, including, but not limited to, its own convenience. If any Participant under this Agreement elects to withdraw or terminate its participation under the Agreement prior to June 30, 2017, the withdrawing Party shall give Oklahoma City thirty (30) days prior written notice of the termination. Any Participant withdrawing from this Agreement must meet all financial commitments and other obligations up to the point of the termination or withdrawal. Withdrawal or termination shall not be effective until all financial commitments and other obligations shall be satisfied.

4. Each Participant may independently renew this Agreement beyond the Initial Term upon mutual agreement of Oklahoma City and the renewing Participant. Request for renewal shall be in the form of a letter from the authorized representative of the Participant must be received in July and may be accepted by the City Public Works Director on behalf of Oklahoma City. Each such renewal shall be for one fiscal year, July 1 to the following June 30. Provided however that no Participant in arrears in payment of charges for services render pursuant to this Agreement shall be permitted to renew this Agreement.

5. The City of Oklahoma City agrees to accept HHW from residents of Participant, with the understanding that The City of Oklahoma will maintain an accounting of these cross-jurisdictional amounts and reimbursement for their management. The residents will be required to comply with ordinances and policies for the disposition of HHW established by Oklahoma City, as may be amended from time to time.

6. The City of Oklahoma City, will bill each Participant (the city or county from which a participating **resident** has originated as such proof of residency is presented to Oklahoma City) separately after each collection occurrence and the participating Party will reimburse Oklahoma City in accordance with the terms of this Agreement. The Participant hereby agrees to establish and/or encumber funding for this Agreement and the services to be provided, and to timely pay for services provided. The Participant agrees that Oklahoma City may but is not required to inquire or investigate the residency of any person dropping off HHW beyond the address on the resident's driver's license.

7. Billings are considered due forty-five (45) calendar days after issuance of billing. If payment is not received by the due date a ten (10%) percent late fee will be assessed to the Participant and service to residents of any delinquent Participants will be subject to termination ninety (90) calendar days after the bill issuance date.

8. Oklahoma City shall assess a rate (based on national surveys) per equivalent rate unit (ERU) of fifteen (15) gallons per household. The fee structure per each resident per arrival or entry shall be evaluated by the following scale:

≤ 7.5 gallons	.5 ERU	$ 39.50
> 7.5 gallons to 15 gallons	1.0 ERU	$ 79.00
> 15 gallons to 22.5 gallons	1.5 ERU	$118.50
> 22.5 gallons	2.0 ERU	$158.00

[Note:] Minimum charge per vehicle per arrival = .5 ERU
Maximum charge per vehicle per arrival = 2.0 ERU

9. Pursuant to the permit issued by the Oklahoma Department of Environmental Quality, Oklahoma City is prohibited from taking any waste other than products expressly produced for home use. No commercial products will be accepted. No products from commercial business or institutions will be accepted. No products from commercial vehicles shall be accepted.

10. This Agreement shall be deemed effective and legally binding upon execution by each of the parties hereto.

11. This Agreement may be amended upon the mutual agreement of the parties or their authorized representatives.

12. All notices required to be given hereunder, shall be in writing and shall be: delivered in person (and a confirming copy sent by first class mail); or shall be mailed by registered mail; or delivered by facsimile with a return receipt showing delivery (and a confirming copy sent by first class mail), to the following addresses:

(a) Notices to Oklahoma City:
City Clerk
The City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, Oklahoma 73102

and

Public Works Department
Storm Water Quality Manager
420 West Main Street, 3th Floor
Oklahoma City, Oklahoma 73102

(b) Notices to the Participant:

The parties may hereafter designate, in writing and as provided herein, other or different persons or addresses for receipt of notice.

13. When any word in this Agreement is used in the singular number, it shall include the plural and the plural, the singular, except where contrary intention plainly appears. When any word is used in the masculine, it shall include the feminine, and the feminine, the masculine, except where a contrary intention plainly appears.

14. The parties hereto, acting under authority of their respective governing bodies, have caused this Agreement to be executed in multiple counterparts, each of which shall constitute an original.

15. The parties hereto agree that it is not their intent to create any rights or benefits to any third parties and that no third party beneficiaries shall be created or shall be deemed to be created by this Agreement.

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16. The parties hereto agree to abide by the applicable and constitutionally valid laws of the State of Oklahoma and the United States of America. The parties further agree that any action to enforce the provisions of this Agreement or any dispute over the interpretation of this Agreement shall be resolved and in a court of competent jurisdiction in Oklahoma County, Oklahoma.

17. This is the complete Agreement between the parties and no statements, representations or discussions not set forth herein shall be binding upon the parties and no party is or shall be bound by any statement or representation that does not conform with this document. No agent or any party to this Agreement has authority to alter, modify or change this Agreement except as expressly provided herein. This Agreement shall be read as a whole and shall not be interpreted either for or against any party. This Agreement may only be amended in writing as approved and executed by all parties hereto.

18. Time shall be deemed to be of the essence of this Agreement.

19. A breach of any provision of this Agreement shall be deemed to be a breach of the entire Agreement provided however the breaching party or parties shall be given thirty (30) days notice as provided herein during which to cure any breach prior to the termination of this Agreement. Provided however, the failure of any party hereto to provide notice of a breach of this Agreement shall not be deemed a waiver of that breach or any subsequent breach of a similar or different kind or nature.

20. A determination that any provision or application of any provision of this Agreement to any party is prohibited or contrary to law shall be limited to the specific language and/or party so construed, and shall not effect the validity of the remaining provisions of the Agreement or its binding effect on any other party or parties.

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Approved and executed by The City of Moore (Participant) this 16th day of May, 20 16.

THE CITY OF MOORE
(Participant)

Glenn Lewis
Mayor

ATTEST: (Seal)

Becky Mitchell
Clerk

Approved and executed by The City of Oklahoma City this 21st day of June, 20 16

THE CITY OF OKLAHOMA CITY

Mick Cornett
Mayor

ATTEST: (Seal)

Maren Kersey
City Clerk

REVIEWED for form and legality.

David Branch
Assistant Municipal Counselor

P:\Other Cities\Intergovernmental Agreement

City of Shawnee
OKLAHOMA

May 9, 2024

Oklahoma City Public Works Director
Attn: Leanita Herndon
3738 SW 15th Street, Building 1
Oklahoma City, OK 73108

Re: Renewal of Intergovernmental Agreement for Regional Household Hazardous Waste Collection and Management Services

To whom it may concern:

Pursuant to Article 4 of the Inter-Governmental Agreement between our cities, notice is required of our intent regarding this contract. Please be advised the City of Shawnee would like to continue participation with Oklahoma City regarding hazardous waste disposal.

Thank you for your assistance in this regard. Should you have any questions, please don't hesitate to contact me.

Sincerely,

Ed Bolt
Mayor

EB/ke

An Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management Project (the Project)

THIS AGREEMENT, made and entered into this the **21st** day of **June**, 20**16**, by, between and among City of Shawnee (hereinafter referred to as "Participant" or "Participants") and The City of Oklahoma City (hereinafter referred to as "Oklahoma City").

WITNESSETH:

WHEREAS, the parties, referenced above, with The City of Oklahoma City acting as Lead Party, have resolved to enter into this Agreement to define the participation and expectations of each party and to coordinate the collection and management of household hazardous waste (HHW) and the implementation of a joint program; and

WHEREAS, the EPA Clean Water Act of 1987 requires the establishment of Hazardous Waste Collection and Disposal Programs for MS4 permits; and

WHEREAS, hazardous household waste is "a waste which would be chemically or physically classified as a hazardous waste but is excluded from regulation as a hazardous waste pursuant to the regulations of the Environment Protect Agency because it is generated by a household;" such HHW consisting of numerous products common to the average household, such as pesticides, paints, polishes, cleaners, and automotive supplies; and

WHEREAS, each party to this Agreement has independently researched the possible benefits and obligations of participating in and coordinate activities under the Project; and

WHEREAS, each party has determined that a regional cooperative HHW Education, Collection and Management Project will provide increased convenience/participation and possibly result in a lower cost per participant and cost savings to all parties; and

NOW, THEREFORE, in consideration of the mutual goals and covenants contained herein, and the mutual benefits to result therefrom, the parties agree as follows,

1. The purpose of this Agreement is to establish a Regional HHW Collection and Management Project to affect cost savings, increase public convenience and participation, and educate the public about the proper management of HHW.

2. The term of this Agreement shall commence upon its effective date and conclude June 30, 2017 (which term shall be referred to as the "Initial Term" or the "Demonstration Period").

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3. Each Participant shall have the right to terminate its participation under this Agreement at any time during the term of the Agreement for any reason, including, but not limited to, its own convenience. If any Participant under this Agreement elects to withdraw or terminate its participation under the Agreement prior to June 30, 2017, the withdrawing Party shall give Oklahoma City thirty (30) days prior written notice of the termination. Any Participant withdrawing from this Agreement must meet all financial commitments and other obligations up to the point of the termination or withdrawal. Withdrawal or termination shall not be effective until all financial commitments and other obligations shall be satisfied.

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8. Oklahoma City shall assess a rate (based on national surveys) per equivalent rate unit (ERU) of fifteen (15) gallons per household. The fee structure per each resident per arrival or entry shall be evaluated by the following scale:

≤ 7.5 gallons	.5 ERU	$ 39.50
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> 22.5 gallons	2.0 ERU	$158.00

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Maximum charge per vehicle per arrival = 2.0 ERU

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WITNESSETH:

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(a) Notices to Oklahoma City:
City Clerk
The City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, Oklahoma 73102

and

Public Works Department
Storm Water Quality Manager
420 West Main Street, 3th Floor
Oklahoma City, Oklahoma 73102

(b) Notices to the Participant:

The parties may hereafter designate, in writing and as provided herein, other or different persons or addresses for receipt of notice.

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17. This is the complete Agreement between the parties and no statements, representations or discussions not set forth herein shall be binding upon the parties and no party is or shall be bound by any statement or representation that does not conform with this document. No agent or any party to this Agreement has authority to alter, modify or change this Agreement except as expressly provided herein. This Agreement shall be read as a whole and shall not be interpreted either for or against any party. This Agreement may only be amended in writing as approved and executed by all parties hereto.

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20. A determination that any provision or application of any provision of this Agreement to any party is prohibited or contrary to law shall be limited to the specific language and/or party so construed, and shall not effect the validity of the remaining provisions of the Agreement or its binding effect on any other party or parties.

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Approved and executed by City of Shawnee (Participant) this 2nd day of May, 2016.

THE CITY OF SHAWNEE OKLAHOMA SEAL

ATTEST: (Seal)

Phyllis Lyles
Clerk

(Participant)

Wes McDowell
Mayor

Reviewed for form and legality:

Joseph K. Vorndran, Interim City Attorney
City of Shawnee

Approved and executed by The City of Oklahoma City this 21st day of June, 20 16.

THE CITY OF OKLAHOMA CITY

Mick Cornett
Mayor

ATTEST: (Seal)

SEAL OF THE CITY OF OKLAHOMA CITY

Frances Kersey
City Clerk

REVIEWED for form and legality.

David Branch
Assistant Municipal Counselor

P:\Other Cities\Intergovernmental Agreement

THE CITY OF THE VILLAGE
(405)751-8661
2304 Manchester Dr.,
The Village, OK 73120
www.thevillageok.org

June 25, 2024

The City of Oklahoma City
Department of Public Works
Storm Water Quality Management
ATTN: Debbie Miller, Public Works Director
3738 SW 15th St., Bldg-1
Oklahoma City, OK 73108

RE: Renewal of Hazardous Waste Agreement for FY 2024-25

Dear Director Miller,

The City of The Village wishes to renew the Hazardous Waste Agreement with the City of Oklahoma City for the period of July 1, 2024 to June 30, 2025. We appreciate the opportunity to partner with Oklahoma City.

Sincerely,

DAVID BENNETT, MAYOR

ATTEST:
Dave Slezickey, City Clerk

CITY OF THE VILLAGE OFFICIAL SEAL CORPORATE OKLAHOMA COUNTY, OKLA.

An Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management Project (the Project)

THIS AGREEMENT, made and entered into this the 19th day of July, 16, by, between and among the City of The Village (hereinafter referred to as "Participant" or "Participants") and The City of Oklahoma City (hereinafter referred to as "Oklahoma City").

WITNESSETH:

WHEREAS, the parties, referenced above, with The City of Oklahoma City acting as Lead Party, have resolved to enter into this Agreement to define the participation and expectations of each party and to coordinate the collection and management of household hazardous waste (HHW) and the implementation of a joint program; and

WHEREAS, the EPA Clean Water Act of 1987 requires the establishment of Hazardous Waste Collection and Disposal Programs for MS4 permits; and

WHEREAS, hazardous household waste is "a waste which would be chemically or physically classified as a hazardous waste but is excluded from regulation as a hazardous waste pursuant to the regulations of the Environment Protect Agency because it is generated by a household;" such HHW consisting of numerous products common to the average household, such as pesticides, paints, polishes, cleaners, and automotive supplies; and

WHEREAS, each party to this Agreement has independently researched the possible benefits and obligations of participating in and coordinate activities under the Project; and

WHEREAS, each party has determined that a regional cooperative HHW Education, Collection and Management Project will provide increased convenience/participation and possibly result in a lower cost per participant and cost savings to all parties; and

NOW, THEREFORE, in consideration of the mutual goals and covenants contained herein, and the mutual benefits to result therefrom, the parties agree as follows,

1. The purpose of this Agreement is to establish a Regional HHW Collection and Management Project to affect cost savings, increase public convenience and participation, and educate the public about the proper management of HHW.

2. The term of this Agreement shall commence upon its effective date and conclude June 30, 2017 (which term shall be referred to as the "Initial Term" or the "Demonstration Period").

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3. Each Participant shall have the right to terminate its participation under this Agreement at any time during the term of the Agreement for any reason, including, but not limited to, its own convenience. If any Participant under this Agreement elects to withdraw or terminate its participation under the Agreement prior to June 30, 2017, the withdrawing Party shall give Oklahoma City thirty (30) days prior written notice of the termination. Any Participant withdrawing from this Agreement must meet all financial commitments and other obligations up to the point of the termination or withdrawal. Withdrawal or termination shall not be effective until all financial commitments and other obligations shall be satisfied.

4. Each Participant may independently renew this Agreement beyond the Initial Term upon mutual agreement of Oklahoma City and the renewing Participant. Request for renewal shall be in the form of a letter from the authorized representative of the Participant must be received in July and may be accepted by the City Public Works Director on behalf of Oklahoma City. Each such renewal shall be for one fiscal year, July 1 to the following June 30. Provided however that no Participant in arrears in payment of charges for services render pursuant to this Agreement shall be permitted to renew this Agreement.

5. The City of Oklahoma City agrees to accept HHW from residents of Participant, with the understanding that The City of Oklahoma will maintain an accounting of these cross-jurisdictional amounts and reimbursement for their management. The residents will be required to comply with ordinances and policies for the disposition of HHW established by Oklahoma City, as may be amended from time to time.

6. The City of Oklahoma City, will bill each Participant (the city or county from which a participating resident has originated as such proof of residency is presented to Oklahoma City) separately after each collection occurrence and the participating Party will reimburse Oklahoma City in accordance with the terms of this Agreement. The Participant hereby agrees to establish and/or encumber funding for this Agreement and the services to be provided, and to timely pay for services provided. The Participant agrees that Oklahoma City may but is not required to inquire or investigate the residency of any person dropping off HHW beyond the address on the resident's driver's license.

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[Note:] **Minimum charge per vehicle per arrival = .5 ERU**
Maximum charge per vehicle per arrival = 2.0 ERU

9. Pursuant to the permit issued by the Oklahoma Department of Environmental Quality, Oklahoma City is prohibited from taking any waste other than products expressly produced for home use. No commercial products will be accepted. No products from commercial business or institutions will be accepted. No products from commercial vehicles shall be accepted.

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12. All notices required to be given hereunder, shall be in writing and shall be: delivered in person (and a confirming copy sent by first class mail); or shall be mailed by registered mail; or delivered by facsimile with a return receipt showing delivery (and a confirming copy sent by first class mail), to the following addresses:

(a) Notices to Oklahoma City:
City Clerk
The City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, Oklahoma 73102

and

Public Works Department
Storm Water Quality Manager
420 West Main Street, 3th Floor
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The parties may hereafter designate, in writing and as provided herein, other or different persons or addresses for receipt of notice.

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Approved and executed by the City of The Village (Participant) this 5th day of July, 20 16.

CITY OF THE VILLAGE
(Participant)

Hutch Hibbard, Mayor

ATTEST: (Seal)

Bruce K. Stone Clerk

Approved and executed by The City of Oklahoma City this ____ day of _____, 20____.

THE CITY OF OKLAHOMA CITY

Vice Mayor

ATTEST: (Seal)

City Clerk

REVIEWED for form and legality.

Assistant Municipal Counselor

P:\Other Cities\Intergovernmental Agreement

City of Warr Acres
4301 N. Ann Arbor Avenue
Warr Acres, Oklahoma 73122-4123
City Hall - 789-2892
Fax - 787-5432

April 23, 2024

Oklahoma City Public Works Director
3738 SW 15th Street, Bldg. 1
Oklahoma City, OK 73108

RE: Hazardous Waste MOU Renewal

Please consider this to be the City Of Warr Acres formal request to renew the Hazardous Waste Inter-Governmental Agreement with the City Of Oklahoma City. Warr Acres wishes to renew for the period of July 1, 2024-June 30, 2025. If there are any questions please feel free to call, my office number is 789-2892. Thank you for your consideration.

Respectfully,

Roger Godwin
Mayor

An Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management Project (the Project)

THIS AGREEMENT, made and entered into this the **21st** day of **June**, 20**16** by, between and among City of Warr Acres (hereinafter referred to as "Participant" or "Participants") and The City of Oklahoma City (hereinafter referred to as "Oklahoma City").

WITNESSETH:

WHEREAS, the parties, referenced above, with The City of Oklahoma City acting as Lead Party, have resolved to enter into this Agreement to define the participation and expectations of each party and to coordinate the collection and management of household hazardous waste (HHW) and the implementation of a joint program; and

WHEREAS, the EPA Clean Water Act of 1987 requires the establishment of Hazardous Waste Collection and Disposal Programs for MS4 permits; and

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4. Each Participant may independently renew this Agreement beyond the Initial Term upon mutual agreement of Oklahoma City and the renewing Participant. Request for renewal shall be in the form of a letter from the authorized representative of the Participant must be received in July and may be accepted by the City Public Works Director on behalf of Oklahoma City. Each such renewal shall be for one fiscal year, July 1 to the following June 30. Provided however that no Participant in arrears in payment of charges for services render pursuant to this Agreement shall be permitted to renew this Agreement.

5. The City of Oklahoma City agrees to accept HHW from residents of Participant, with the understanding that The City of Oklahoma will maintain an accounting of these cross-jurisdictional amounts and reimbursement for their management. The residents will be required to comply with ordinances and policies for the disposition of HHW established by Oklahoma City, as may be amended from time to time.

6. The City of Oklahoma City, will bill each Participant (the city or county from which a participating **resident** has originated as such proof of residency is presented to Oklahoma City) separately after each collection occurrence and the participating Party will reimburse Oklahoma City in accordance with the terms of this Agreement. The Participant hereby agrees to establish and/or encumber funding for this Agreement and the services to be provided, and to timely pay for services provided. The Participant agrees that Oklahoma City may but is not required to inquire or investigate the residency of any person dropping off HHW beyond the address on the resident's driver's license.

7. Billings are considered due forty-five (45) calendar days after issuance of billing. If payment is not received by the due date a ten (10%) percent late fee will be assessed to the Participant and service to residents of any delinquent Participants will be subject to termination ninety (90) calendar days after the bill issuance date.

8. Oklahoma City shall assess a rate (based on national surveys) per equivalent rate unit (ERU) of fifteen (15) gallons per household. The fee structure per each resident per arrival or entry shall be evaluated by the following scale:

≤ 7.5 gallons	.5 ERU	$ 39.50
> 7.5 gallons to 15 gallons	1.0 ERU	$ 79.00
> 15 gallons to 22.5 gallons	1.5 ERU	$118.50
> 22.5 gallons	2.0 ERU	$158.00

[Note:] **Minimum charge per vehicle per arrival = .5 ERU**
Maximum charge per vehicle per arrival = 2.0 ERU

9. Pursuant to the permit issued by the Oklahoma Department of Environmental Quality, Oklahoma City is prohibited from taking any waste other than products expressly produced for home use. No commercial products will be accepted. No products from commercial business or institutions will be accepted. No products from commercial vehicles shall be accepted.

10. This Agreement shall be deemed effective and legally binding upon execution by each of the parties hereto.

11. This Agreement may be amended upon the mutual agreement of the parties or their authorized representatives.

12. All notices required to be given hereunder, shall be in writing and shall be: delivered in person (and a confirming copy sent by first class mail); or shall be mailed by registered mail; or delivered by facsimile with a return receipt showing delivery (and a confirming copy sent by first class mail), to the following addresses:

(a) Notices to Oklahoma City:
City Clerk
The City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, Oklahoma 73102

and

Public Works Department
Storm Water Quality Manager
420 West Main Street, 3th Floor
Oklahoma City, Oklahoma 73102

(b) Notices to the Participant:

The parties may hereafter designate, in writing and as provided herein, other or different persons or addresses for receipt of notice.

13. When any word in this Agreement is used in the singular number, it shall include the plural and the plural, the singular, except where contrary intention plainly appears. When any word is used in the masculine, it shall include the feminine, and the feminine, the masculine, except where a contrary intention plainly appears.

14. The parties hereto, acting under authority of their respective governing bodies, have caused this Agreement to be executed in multiple counterparts, each of which shall constitute an original.

15. The parties hereto agree that it is not their intent to create any rights or benefits to any third parties and that no third party beneficiaries shall be created or shall be deemed to be created by this Agreement.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

16. The parties hereto agree to abide by the applicable and constitutionally valid laws of the State of Oklahoma and the United States of America. The parties further agree that any action to enforce the provisions of this Agreement or any dispute over the interpretation of this Agreement shall be resolved and in a court of competent jurisdiction in Oklahoma County, Oklahoma.

17. This is the complete Agreement between the parties and no statements, representations or discussions not set forth herein shall be binding upon the parties and no party is or shall be bound by any statement or representation that does not conform with this document. No agent or any party to this Agreement has authority to alter, modify or change this Agreement except as expressly provided herein. This Agreement shall be read as a whole and shall not be interpreted either for or against any party. This Agreement may only be amended in writing as approved and executed by all parties hereto.

18. Time shall be deemed to be of the essence of this Agreement.

19. A breach of any provision of this Agreement shall be deemed to be a breach of the entire Agreement provided however the breaching party or parties shall be given thirty (30) days notice as provided herein during which to cure any breach prior to the termination of this Agreement. Provided however, the failure of any party hereto to provide notice of a breach of this Agreement shall not be deemed a waiver of that breach or any subsequent breach of a similar or different kind or nature.

20. A determination that any provision or application of any provision of this Agreement to any party is prohibited or contrary to law shall be limited to the specific language and/or party so construed, and shall not effect the validity of the remaining provisions of the Agreement or its binding effect on any other party or parties.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

Approved and executed by City of Warr Acres (Participant) this 17th day of May, 2016.

City of Warr Acres
(Participant)

Mayor

ATTEST: (Seal)

Clerk

Approved and executed by The City of Oklahoma City this **21st** day of **June**, 20 **16**.

THE CITY OF OKLAHOMA CITY

Mayor

ATTEST: (Seal)

City Clerk

REVIEWED for form and legality.

Assistant Municipal Counselor

P:\Other Cities\Intergovernmental Agreement

Yukon's BEST OKLAHOMA

May 8, 2024

Mr. Lyndel Gibson
Hazardous Household Waste Supervisor
ODC Dept. of Public Works-Stormwater Quality
3738 SW 15th Street, Building 1
Oklahoma City, OK 73108

Re: City of Yukon/City of Oklahoma City Inter-Governmental Agreement for Regional Household Hazardous Waste

As provided in the approved 2016 Intergovernmental Agreement for the collection and disposal of household hazardous waste, the City of Yukon is respectfully requesting a one-year renewal for the 2024-2025 Fiscal Year under the same terms and conditions as the current agreement.

If you should need additional information to process this request, please do not hesitate to contact Mitchell Hort, Assistant City Manager at 405-354-6676.

Respectfully,

Shelli Selby
Mayor

JS

P.O. Box 850500 Yukon, OK 73085 T: 405.350.8930 F: 405.350.5985 www.yukonok.gov

An Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management Project (the Project)

THIS AGREEMENT, made and entered into this the 5th day of July, 20 16, by, between and among City of Yukon (hereinafter referred to as "Participant" or "Participants") and The City of Oklahoma City (hereinafter referred to as "Oklahoma City").

WITNESSETH:

WHEREAS, the parties, referenced above, with The City of Oklahoma City acting as Lead Party, have resolved to enter into this Agreement to define the participation and expectations of each party and to coordinate the collection and management of household hazardous waste (HHW) and the implementation of a joint program; and

WHEREAS, the EPA Clean Water Act of 1987 requires the establishment of Hazardous Waste Collection and Disposal Programs for MS4 permits; and

WHEREAS, hazardous household waste is "a waste which would be chemically or physically classified as a hazardous waste but is excluded from regulation as a hazardous waste pursuant to the regulations of the Environment Protect Agency because it is generated by a household;" such HHW consisting of numerous products common to the average household, such as pesticides, paints, polishes, cleaners, and automotive supplies; and

WHEREAS, each party to this Agreement has independently researched the possible benefits and obligations of participating in and coordinate activities under the Project; and

WHEREAS, each party has determined that a regional cooperative HHW Education, Collection and Management Project will provide increased convenience/participation and possibly result in a lower cost per participant and cost savings to all parties; and

NOW, THEREFORE, in consideration of the mutual goals and covenants contained herein, and the mutual benefits to result therefrom, the parties agree as follows,

1. The purpose of this Agreement is to establish a Regional HHW Collection and Management Project to affect cost savings, increase public convenience and participation, and educate the public about the proper management of HHW.

2. The term of this Agreement shall commence upon its effective date and conclude June 30, 2017 (which term shall be referred to as the "Initial Term" or the "Demonstration Period").

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK

3. Each Participant shall have the right to terminate its participation under this Agreement at any time during the term of the Agreement for any reason, including, but not limited to, its own convenience. If any Participant under this Agreement elects to withdraw or terminate its participation under the Agreement prior to June 30, 2017, the withdrawing Party shall give Oklahoma City thirty (30) days prior written notice of the termination. Any Participant withdrawing from this Agreement must meet all financial commitments and other obligations up to the point of the termination or withdrawal. Withdrawal or termination shall not be effective until all financial commitments and other obligations shall be satisfied.

4. Each Participant may independently renew this Agreement beyond the Initial Term upon mutual agreement of Oklahoma City and the renewing Participant. Request for renewal shall be in the form of a letter from the authorized representative of the Participant must be received in July and may be accepted by the City Public Works Director on behalf of Oklahoma City. Each such renewal shall be for one fiscal year, July 1 to the following June 30. Provided however that no Participant in arrears in payment of charges for services render pursuant to this Agreement shall be permitted to renew this Agreement.

5. The City of Oklahoma City agrees to accept HHW from residents of Participant, with the understanding that The City of Oklahoma will maintain an accounting of these cross-jurisdictional amounts and reimbursement for their management. The residents will be required to comply with ordinances and policies for the disposition of HHW established by Oklahoma City, as may be amended from time to time.

6. The City of Oklahoma City, will bill each Participant (the city or county from which a participating **resident** has originated as such proof of residency is presented to Oklahoma City) separately after each collection occurrence and the participating Party will reimburse Oklahoma City in accordance with the terms of this Agreement. The Participant hereby agrees to establish and/or encumber funding for this Agreement and the services to be provided, and to timely pay for services provided. The Participant agrees that Oklahoma City may but is not required to inquire or investigate the residency of any person dropping off HHW beyond the address on the resident's driver's license.

7. Billings are considered due forty-five (45) calendar days after issuance of billing. If payment is not received by the due date a ten (10%) percent late fee will be assessed to the Participant and service to residents of any delinquent Participants will be subject to termination ninety (90) calendar days after the bill issuance date.

8. Oklahoma City shall assess a rate (based on national surveys) per equivalent rate unit (ERU) of fifteen (15) gallons per household. The fee structure per each resident per arrival or entry shall be evaluated by the following scale:

≤ 7.5 gallons	.5 ERU	$ 39.50
> 7.5 gallons to 15 gallons	1.0 ERU	$ 79.00
> 15 gallons to 22.5 gallons	1.5 ERU	$118.50
> 22.5 gallons	2.0 ERU	$158.00

[Note:] Minimum charge per vehicle per arrival = .5 ERU
Maximum charge per vehicle per arrival = 2.0 ERU

9. Pursuant to the permit issued by the Oklahoma Department of Environmental Quality, Oklahoma City is prohibited from taking any waste other than products expressly produced for home use. No commercial products will be accepted. No products from commercial business or institutions will be accepted. No products from commercial vehicles shall be accepted.

10. This Agreement shall be deemed effective and legally binding upon execution by each of the parties hereto.

11. This Agreement may be amended upon the mutual agreement of the parties or their authorized representatives.

12. All notices required to be given hereunder, shall be in writing and shall be: delivered in person (and a confirming copy sent by first class mail); or shall be mailed by registered mail; or delivered by facsimile with a return receipt showing delivery (and a confirming copy sent by first class mail), to the following addresses:

(a) Notices to Oklahoma City:
City Clerk
The City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, Oklahoma 73102

and

Public Works Department
Storm Water Quality Manager
420 West Main Street, 3th Floor
Oklahoma City, Oklahoma 73102

(b) Notices to the Participant:

The parties may hereafter designate, in writing and as provided herein, other or different persons or addresses for receipt of notice.

13. When any word in this Agreement is used in the singular number, it shall include the plural and the plural, the singular, except where contrary intention plainly appears. When any word is used in the masculine, it shall include the feminine, and the feminine, the masculine, except where a contrary intention plainly appears.

14. The parties hereto, acting under authority of their respective governing bodies, have caused this Agreement to be executed in multiple counterparts, each of which shall constitute an original.

15. The parties hereto agree that it is not their intent to create any rights or benefits to any third parties and that no third party beneficiaries shall be created or shall be deemed to be created by this Agreement.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

16. The parties hereto agree to abide by the applicable and constitutionally valid laws of the State of Oklahoma and the United States of America. The parties further agree that any action to enforce the provisions of this Agreement or any dispute over the interpretation of this Agreement shall be resolved and in a court of competent jurisdiction in Oklahoma County, Oklahoma.

17. This is the complete Agreement between the parties and no statements, representations or discussions not set forth herein shall be binding upon the parties and no party is or shall be bound by any statement or representation that does not conform with this document. No agent or any party to this Agreement has authority to alter, modify or change this Agreement except as expressly provided herein. This Agreement shall be read as a whole and shall not be interpreted either for or against any party. This Agreement may only be amended in writing as approved and executed by all parties hereto.

18. Time shall be deemed to be of the essence of this Agreement.

19. A breach of any provision of this Agreement shall be deemed to be a breach of the entire Agreement provided however the breaching party or parties shall be given thirty (30) days notice as provided herein during which to cure any breach prior to the termination of this Agreement. Provided however, the failure of any party hereto to provide notice of a breach of this Agreement shall not be deemed a waiver of that breach or any subsequent breach of a similar or different kind or nature.

20. A determination that any provision or application of any provision of this Agreement to any party is prohibited or contrary to law shall be limited to the specific language and/or party so construed, and shall not effect the validity of the remaining provisions of the Agreement or its binding effect on any other party or parties.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

Jun 17 2016 10:57AM CityofYukon Finance 4053597676 page 7

Approved and executed by City of Yukon (Participant) this 3rd day of May, 20 16.

ATTEST: (Seal)

Clerk

City of Yukon
(Participant)

Mayor

Approved and executed by The City of Oklahoma City this **5th** day of **July**, 20 **16**.

THE CITY OF OKLAHOMA CITY

ATTEST: (Seal)

City Clerk

Mayor

SEAL OF THE CITY OF OKLAHOMA CITY

REVIEWED for form and legality.

Assistant Municipal Counselor

P:\Other Cities\Intergovernmental Agreement

CITY OF NICHOLS HILLS

City Clerk
City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, OK 73102

RE: Household Hazardous Waste Agreement

Please find enclosed two copies of the Household Hazardous Waste Agreement between the City of Nichols Hills and the City of Oklahoma City.

Please have signatures of your Mayor, City Clerk, and Assistant Municipal Counselor in the appropriate places to bind this agreement. Return one original to me and keep one for your files. Note the City of Nichols Hills approved this agreement on December 10, 2024.

Please do not hesitate to call me at 405-843-6637 with any questions.

Respectfully,

Amanda Copeland

Amanda Copeland
City Clerk

TOWN HALL 6407 AVONDALE DRIVE • NICHOLS HILLS, OKLAHOMA 73116-6431 405/843-6637, FAX 405/842-8409

An Inter-Governmental Agreement for a Regional Household Hazardous Waste Collection, and Management Project (the Project)

THIS AGREEMENT, made and entered into, by and between the City of Nichols Hills, Oklahoma, a municipal corporation, (hereinafter referred to as "Participant" or "Participants") and The City of Oklahoma City (hereinafter referred to as "Oklahoma City") to be effective on the date signed by Oklahoma City (the "Effective Date").

WITNESSETH:

WHEREAS, the parties, referenced above, with The City of Oklahoma City acting as Lead Party, have resolved to enter into this Agreement to define the participation and expectations of each party and to coordinate the collection and management of household hazardous waste (HHW) and the implementation of a joint program; and

WHEREAS, the EPA Clean Water Act of 1987 requires the establishment of Hazardous Waste Collection and Disposal Programs for MS4 permits; and

WHEREAS, hazardous household waste is "a waste which would be chemically or physically classified as a hazardous waste but is excluded from regulation as a hazardous waste pursuant to the regulations of the Environment Protect Agency because it is generated by a household;" such HHW consisting of numerous products common to the average household, such as pesticides, paints, polishes, cleaners, and automotive supplies; and

WHEREAS, each party to this Agreement has independently researched the possible benefits and obligations of participating in and coordinate activities under the Project; and

WHEREAS, each party has determined that a regional cooperative HHW Education, Collection and Management Project will provide increased convenience/participation and possibly result in a lower cost per participant and cost savings to all parties; and

NOW, THEREFORE, in consideration of the mutual goals and covenants contained herein, and the mutual benefits to result therefrom, the parties agree as follows:

1. The purpose of this Agreement is to establish a Regional HHW Collection and Management Project to affect cost savings, increase public convenience and participation, and educate the public about the proper management of HHW.

2. The term of this Agreement shall commence upon its Effective Date and conclude June 30, 2025 (which term shall be referred to as the "Initial Term").

3. Participant shall have the right to terminate its participation under this Agreement at any time during the term of the Agreement for any reason, including, but not limited to, its own convenience. If Participant elects to terminate its participation under the Agreement prior to June 30, 2025, Participant shall give Oklahoma City thirty (30) days prior written notice of the termination. If Participant terminates this Agreement, Participant must

1

meet all financial commitments and other obligations up to the point of the termination. Termination shall not be effective until all financial commitments and other obligations shall be satisfied; however, participation in the Project by Participant's residents shall cease to be available upon termination.

4. The parties hereto may renew this Agreement beyond the Initial Term upon mutual agreement of Oklahoma City and Participant. Request for renewal shall be in the form of a letter from the authorized representative of the Participant, which letter must be received in May and may be accepted by the City Public Works Director on behalf of Oklahoma City and will be effective upon ratification by the Oklahoma City Council. Each such renewal shall be for one fiscal year, July 1 to the following June 30. Provided however that no Participant in arrears in payment of charges for services rendered pursuant to this Agreement shall be permitted to renew this Agreement.

5. The City of Oklahoma City agrees to accept HHW from residents of Participant, with the understanding that The City of Oklahoma will maintain an accounting of these cross-jurisdictional amounts and reimbursement for their management. The residents of Participant will be required to comply with ordinances and policies for the receipt and disposition of HHW established by Oklahoma City, as may be amended from time to time.

6. The City of Oklahoma City, will bill Participant separately after each collection occurrence. Participant will reimburse Oklahoma City in accordance with the terms of this Agreement. The Participant hereby agrees to establish and/or encumber funding for this Agreement and the services to be provided, and to timely pay for services provided. The Participant agrees that Oklahoma City may but is not required to inquire or investigate the residency of any person delivering HHW beyond the address on the resident's driver's license.

7. Billings are considered due forty-five (45) calendar days after issuance of billing. If payment is not received by the due date a ten percent (10%) late fee will be assessed to the Participant. Service to residents of delinquent Participant will terminate ninety (90) calendar days after the bill issuance date.

8. Oklahoma City shall assess a rate (based on national surveys) per equivalent rate unit (ERU) of fifteen (15) gallons per household. The fee structure per each resident per arrival or entry shall be evaluated by the following scale:

≤ 7.5 gallons	.5 ERU	$ 39.50
> 7.5 gallons to 15 gallons	1.0 ERU	$ 79.00
> 15 gallons to 22.5 gallons	1.5 ERU	$118.50
> 22.5 gallons	2.0 ERU	$158.00

[Note:] Minimum charge per vehicle per arrival = .5 ERU
Maximum charge per vehicle per arrival = 2.0 ERU

9. Pursuant to the permit issued by the Oklahoma Department of Environmental Quality, Oklahoma City is prohibited from taking any waste other than products expressly produced for home use. No commercial products will be accepted. No products from

commercial businesses or institutions will be accepted. No products from commercial vehicles shall be accepted.

10. This Agreement shall be deemed effective and legally binding upon execution by each of the parties hereto.

11. This Agreement may be amended upon the mutual agreement of the parties or their authorized representatives.

12. All notices required to be given hereunder, shall be in writing and shall be: delivered in person (and a confirming copy sent by first class mail); or shall be mailed by registered mail; or delivered by email with a return receipt showing delivery (and a confirming copy sent by first class mail), to the following addresses:

(a) Notices to Oklahoma City:
City Clerk
The City of Oklahoma City
200 North Walker Avenue, 2nd Floor
Oklahoma City, Oklahoma 73102
Email Address: cityclerk@okc.gov

and

Public Works Department
Storm Water Quality Manager
420 West Main Street, 3rd Floor
Oklahoma City, Oklahoma 73102
Email Address: derek.johnson@okc.gov

(b) Notices to the Participant:
City Manager
City of Nichols Hills, Oklahoma
6407 Avondale Drive
Nichols Hills, Oklahoma 73116
Email Address: spate@nicholshills.net

The parties may hereafter designate, in writing and as provided herein, other or different persons or addresses for receipt of notice.

13. When any word in this Agreement is used in the singular number, it shall include the plural and the plural, the singular, except where contrary intention plainly appears. When any word is used in the masculine, it shall include the feminine, and the feminine, the masculine, except where a contrary intention plainly appears.

14. The parties hereto, acting under authority of their respective governing bodies, have caused this Agreement to be executed in multiple counterparts, each of which shall constitute an original.

15. The parties hereto agree that it is not their intent to create any rights or

benefits to any third parties and that no third party beneficiaries shall be created or shall be deemed to be created by this Agreement.

16. The parties hereto agree to abide by the applicable and constitutionally valid laws of the State of Oklahoma and the United States of America. The parties further agree that any action to enforce the provisions of this Agreement or any dispute over the interpretation of this Agreement shall be resolved and in a court of competent jurisdiction in Oklahoma County, Oklahoma.

17. This is the complete Agreement between the parties and no statements, representations or discussions not set forth herein shall be binding upon the parties and no party is or shall be bound by any statement or representation that does not conform with this document. No agent or any party to this Agreement has authority to alter, modify or change this Agreement except as expressly provided herein. This Agreement shall be read as a whole and shall not be interpreted either for or against any party. This Agreement may only be amended in writing as approved and executed by all parties hereto.

18. Time shall be deemed to be of the essence of this Agreement.

19. Less and except for failure to pay or delinquency in payment, a breach of any provision of this Agreement shall be deemed to be a breach of the entire Agreement provided however the breaching party or parties shall be given thirty (30) days notice as provided herein during which to cure any breach prior to the termination of this Agreement. Provided however, the failure of any party hereto to provide notice of a breach of this Agreement shall not be deemed a waiver of that breach or any subsequent breach of a similar or different kind or nature.

20. A determination that any provision or application of any provision of this Agreement to any party is prohibited or contrary to law shall be limited to the specific language and/or party so construed, and shall not effect the validity of the remaining provisions of the Agreement or its binding effect on any other party or parties.

THE REMAINDER OF THIS PAGE IS LEFT INTENTIONALLY BLANK.

Signature Page for the City of Nichols Hills, Oklahoma

Approved and executed by the City of Nichols Hills, Oklahoma on the 10th day of December, 2024

Mayor

ATTEST: (Seal)

Clerk

CITY OF NICHOLS HILLS OFFICIAL SEAL NICHOLS HILLS, OKLAHOMA

5

Signature Page for the City of Oklahoma City, Oklahoma

Approved and executed by The City of Oklahoma City this 11TH day of FEBRUARY, 20 25.

ATTEST: (Seal)

THE CITY OF OKLAHOMA CITY

City Clerk

VICE Mayor

REVIEWED for form and legality.

Assistant Municipal Counselor

P:\Other Cities\Intergovernmental Agreement

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Contract No. K-1718-85

MEMORANDUM OF UNDERSTANDING
between Norman, Oklahoma City, and Moore
for Joint Public Education Efforts

This Memorandum of Understanding ("MOU") is entered into by and among the City of Norman, Oklahoma, a municipal corporation, hereinafter referred to as "NORMAN", the City of Oklahoma City, Oklahoma, a municipal corporation, hereinafter referred to as "OKLAHOMA CITY", and the City of Moore, Oklahoma, a municipal corporation, hereinafter referred to as "MOORE", which together, NORMAN, OKLAHOMA CITY, and MOORE shall be referred to as the "Parties".

WHEREAS, Lake Thunderbird is located east of Norman, Oklahoma, and includes a drainage area covering large parts of Norman, Oklahoma City, and Moore; and

WHEREAS, Lake Thunderbird was designated as a Sensitive Water Supply Lake by the State of Oklahoma in 2002 and a 303(d) impaired water body in 2008; and

WHEREAS, because there are no major point source discharges in the lake watershed, nutrients and sediment loadings from nonpoint sources during runoff events through tributary streams are assumed by Oklahoma Department of Environmental Quality ("ODEQ") to be a major sources of impairment; and

WHEREAS, the federal Clean Water Act requires total maximum daily loads ("TMDLs") to be developed for impaired water bodies; and

WHEREAS, as a result of being designated a 303(d) impaired water body, the ODEQ developed a Total Maximum Daily Load ("TMDL") for Lake Thunderbird that established waste load allocations and load allocations for reducing turbidity and chlorophyll-a levels and maintain sufficient oxygen levels in Lake Thunderbird to attain water quality targets, to restore impaired beneficial uses, and to protect the public health; and

WHEREAS, the Parties in the Lake Thunderbird watershed are required by ODEQ to develop its own compliance and monitoring plan to meet the waste load allocations set forth in the TMDL; and

WHEREAS, public education and outreach is one of the primary mechanisms of the Parties' monitoring plans for management of stormwater pollution and for TMDL compliance and

WHEREAS, the Parties desire to collaborate on public education efforts for the TMDL.

NOW THEREFORE, in consideration of the mutual covenants and agreements herein contained to be kept and performed Parties mutually agreed as follows:

Contract No. K-1718-85

I. Contract with Compa Creative. The Parties hereby acknowledge that NORMAN has contracted with Compa Creative for the creation of a logo, theme, color scheme, a website and other related marketing items to assist in creating a cohesive branding scheme for the public education and outreach efforts of the Parties.

II. Use of Branding Scheme. NORMAN agrees to make all elements of the branding scheme, including but not limited to logo, theme, color scheme, a website and other related marketing items, developed by Compa Creative may be used by NORMAN, MOORE and OKLAHOMA CITY for its own TMDL related public education and outreach efforts. This MOU is a license for the Parties which have paid its allotted costs to Compa Creative to so use completed elements of the branding scheme.

III. Payment.

A. In exchange for the ongoing use of the branding scheme, as set forth in paragraph II above, developed by Compa Creative, NORMAN, MOORE and OKLAHOMA CITY each agree to pay to Compa Creative an amount equal to one-third (1/3) of the initial and ongoing costs contingent on annual appropriations to fund such costs.

Initial Costs:	$ 2,750 per Party

B. OKLAHOMA CITY authorizes its City Manager to approve payment of one-third of the additional ongoing costs up to and not to exceed a total cost of $5,000, including the initial costs. MOORE authorizes its City Manager to approve payment of one-third of the additional ongoing costs up to and not to exceed a total cost of $5,000, including the initial costs. NORMAN authorizes its City Manager to approve payment of one-third of the additional ongoing costs up to and not to exceed a total cost of $5,000, including the initial costs.

C. Any such payments shall be made by NORMAN, MOORE and OKLAHOMA CITY, respectively, within thirty (30) days of receipt of the elements of the branding scheme and an invoice for such work by NORMAN, MOORE and OKLAHOMA CITY, respectively.

IV. Notice. Any notice given pursuant to this MOU shall be considered as having been legally given when deposited in the United States Post Office with postage thereon fully prepaid, addressed as follows:

NORMAN: City of Norman
Attn: Carrie Evenson, Stormwater Program Manager
P.O. Box 370
Norman, Oklahoma 73070

Contract No. K-1718-85

MOORE: City of Moore
Attn: Mike Harlan, Environmental Services Manager
301 N. Broadway
Moore, OK 73160

OKLAHOMA CITY: City of Oklahoma City
Attn: Raymond Melton
420 West Main Street, 3rd Floor
Oklahoma City, Oklahoma 73102

V. Termination. This MOU may be terminated by either party hereto by giving notice to the other(s) in writing at least thirty (30) calendar days prior to the date of termination.

VI. This MOU shall be in full force and effect on the date signed by the last party to this MOU.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed the day and year set forth below.

APPROVED by the City of Norman and SIGNED by the Mayor this 5th day of December, 2017.

ATTEST: **THE CITY OF NORMAN**

Deputy City Clerk

MAYOR

CITY OF NORMAN CORPORATE SEAL OKLAHOMA

Reviewed for form and legality

Assistant Municipal Counselor

Contract No. K-1718-85

APPROVED by the City of Moore and SIGNED by the Mayor this 20th day of November, 2017.

ATTEST:

CITY OF MOORE Corporate SEAL MOORE, OKLAHOMA

City Clerk

THE CITY OF MOORE

MAYOR

Reviewed for form and legality

~~Assistant~~ Municipal Counselor

Contract No. K-1718-85

APPROVED by the City of Oklahoma City and SIGNED by the Mayor this

16th day of January, 20 18.

ATTEST: **THE CITY OF OKLAHOMA CITY**

City Clerk MAYOR

Reviewed for form and legality

Assistant Municipal Counselor

t:\public works\stormwater\thunderbird\tmdl cooperative agreements\cbk rm ew mou with okc and moore for sw education outreach 10102017 102517.docx

MEMORANDUM OF UNDERSTANDING
between Norman, Oklahoma City, and Moore
for Joint Public Education Efforts
5

Appendix AA: Air Permits within Oklahoma City Corporate Boundaries

Company ID	Company Name	Facility ID	Facility Name	SIC	County	Facility Address	City	State	Zip Code	Latitude	Longitude	Status	Sox (Tons)	Nox (Tons)	CO (Tons)	PM10 (Tons)	PM25 (Tons)	HAP (Tons)	VOC (Tons)	Toxics (Tons)	Classification
3	AAR INC	4	6611 S MERIDIAN	4581	OKLAHOMA	6611 S MERIDIAN ST	OKLAHOMA CITY	OK	73159	35.4439	-97.51587	Operating	0	0	0	0.002	0	0.51	2.464	0	Syn-Min
3329	CARGILL ANML NUTRITION - OKLAHOMA CITY	5	2100 S ROBINSON AVE	2048	OKLAHOMA	2100 S ROBINSON ST	OKLAHOMA CITY	OK	73109	35.4002	-97.60155	Operating	0.005	0.913	0.767	7.306	0.069	0.016	0.05	0	Syn-Min
6	ACME BRICK CO	7	500 E MEMORIAL RD	3251	OKLAHOMA	500 E MEMORIAL RD	OKLAHOMA CITY	OK	73083	35.6089	-97.50517	Operating	10.05	19.947	99.05	14.38	0	10.39	18.757	0	Major
3151	7725 RENO NO1 LLC	127	7725 W RENO NO 1 LLC	3661	OKLAHOMA	7725 W RENO AVE	OKLAHOMA CITY	OK	73127	35.4687	-97.65045	Operating	0.718	14.578	5.029	0.986	0.969	0	1.056	0	Min
43	ATLAS ASPHALT PRODUCTS INC	128	701 N PORTLAND	2951	OKLAHOMA	701 N PORTLAND AVE	OKLAHOMA CITY	OK	73107	35.4733	-97.58474	Operating	0.484	4.022	19.076	5.19	0.113	0	7.496	0	Min
3415	UNIVAR SOLUTIONS USA INC	222	OKLAHOMA CITY FACILITY	5169	OKLAHOMA	7301 SW 29TH ST	OKLAHOMA CITY	OK	73179	35.4355	-97.64093	Temporarily Shutdown	0	0	0	0	0	0	0	0	Min
2658	TEREX USA LLC	258	CMI TEREX CORP	3531	CANADIAN	I 40 AND MORGAN RD	OKLAHOMA CITY	OK	73128	35.458	-97.6827	Operating	0.02	3.548	2.821	0.98	0.256	0.108	10.932	0	Syn-Min
157	BIMBO BAKERIES USA INC	461	OKLAHOMA CITY BAKERY	2051	OKLAHOMA	1916 N BROADWAY	OKLAHOMA CITY	OK	73103	35.4887	-97.51354	Operating	0.015	2.363	1.984	0.557	0.179	0.043	139.12	0	Major
3322	DCP OPERATING CO LP	680	BUTTON BOOSTER STATION	1311	CANADIAN	SW 89TH ST AT CIMARRON	MUSTANG	OK	73064	35.3687	-97.80601	Operating	0	0	0	0	0	0	7.242	0	Syn-Min
3322	DCP OPERATING CO LP	705	EDMOND BOOSTER STATION	1311	OKLAHOMA	2445 NW 164TH ST	EDMOND	OK	73013	35.639	-97.55817	Operating	0	0	0	0	0	0	4.194	0	Syn-Min
4265	OKLAHOMA GAS GATHERING LLC	733	KATY BOOSTER STATION	1311	OKLAHOMA	NE 1ST ST AT BATH	OKLAHOMA CITY	OK	73125	35.4672	-97.48433	Operating	0	0.894	0.069	0	0	0	17.563	0	Syn-Min
3322	DCP OPERATING CO LP	747	MUSTANG BOOSTER STATION	1311	CANADIAN	3 MI S ON HWY 92 AND 1 MI W	YUKON	OK	73085	35.4425	-97.78559	Operating	0	0	0	0	0	0	3.16	0	Syn-Min
3322	DCP OPERATING CO LP	761	RAILROAD BOOSTER STATION	1311	CANADIAN	1 MI N MUSTANG RD AND 10TH	YUKON	OK	73085	35.4849	-97.7206	Temporarily Shutdown	0	0	0	0	0	0	0	0	Syn-Min
3322	DCP OPERATING CO LP	767	RICH BOOSTER STATION	1311	CANADIAN	5.5 MI SW OF PIEDMONT	PIEDMONT	OK	73078	35.6142	-97.79628	Temporarily Shutdown	0	0	0	0	0	0	0	0	Syn-Min
4657	HASKELL LEMON GROUP LLC	817	EAST PLANT	2951	OKLAHOMA	1400 NE 2ND ST	OKLAHOMA CITY	OK	73117	35.4695	-97.48566	Operating	0.297	2.288	11.35	3.776	0.768	0	3.116	0	Syn-Min
4657	HASKELL LEMON GROUP LLC	818	WEST PLANT	2951	OKLAHOMA	6401 SW 15TH ST	OKLAHOMA CITY	OK	73128	35.45	-97.62547	Operating	0.27	2.059	10.293	0.81	0.15	0	2.538	0	Syn-Min
244	INTEGRIS BAPTIST MEDICAL CTR	835	3300 NW EXPRESSWAY	8062	OKLAHOMA	3300 NW EXPY	OKLAHOMA CITY	OK	73112	35.5307	-97.57712	Operating	0.056	9.312	7.821	0.708	0.708	0	0.512	0	Syn-Min
3285	SCHWARZ ASPHALT LLC	925	8251 W RENO	2951	OKLAHOMA	8251 W RENO	OKLAHOMA CITY	OK	73127	35.465	-97.66179	Operating	0.324	18.48	22.105	5.76	3.76	0.128	3.447	0	Syn-Min
285	METAL CONTAINER CORP	940	ALUMINUM BEVERAGE CAN LID MFG FACILITY	3411	OKLAHOMA	3713 S HARMON	OKLAHOMA CITY	OK	73179	35.4272	-97.60853	Operating	0	0	0	0	0	1.724	185.84	0	Major
4265	OKLAHOMA GAS GATHERING LLC	1192	OEXCO ENOGEX BOOSTER STATION	1311	OKLAHOMA	BRITTON RD AT WESTMINISTER	OKLAHOMA CITY	OK	73151	35.566	-97.33223	Temporarily Shutdown	0	0	0	0	0	0	0	0	Min
330	OG AND E	1205	MUSTANG ENERGY CENTER	4911	CANADIAN	701 MUSTANG PLT RD	OKLAHOMA CITY	OK	73127	35.4744	-97.67325	Operating	14.43	346.03	167.51	15.68	15.683	0.117	24.026	0	Major
330	OG AND E	1212	TINKER TURBINES	4911	OKLAHOMA	5100 S DOUGLAS BVD	OKLAHOMA CITY	OK	73150	35.4143	-97.37085	Operating	1.564	68.729	19.138	2.33	2.33	0	0.233	0	Min
330	OG AND E	1407	FRONTIER GENERATING STATION	3999	OKLAHOMA	7425 SW 29TH ST	OKLAHOMA CITY	OK	73179	35.4418	-97.64826	Operating	5.875	211.95	62.47	22.12	20.418	0.121	11.046	0	Major
3182	LAND O LAKES PURINA FEED LLC	1416	LAND O LAKES PURINA FEED	2048	OKLAHOMA	1108 NW 3RD ST	OKLAHOMA CITY	OK	73034	35.4716	-97.53093	Operating	0.004	0.635	0.533	5.567	0.048	0	0.035	0	Min

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2599	NESTLE PURINA PETCARE CO	1424	NESTLE PURINA PETCARE COMPANY OKC	2047	OKLAHOMA	13900 N LINCOLN BLVD	EDMOND	OK	73013	35.6121	-97.50434	Operating	0.124	19.829	16.618	12.95	5.846	0.14	5.574	0	Syn-Min
1603	JOHNS MANVILLE	1441	812 N BRYANT AVE	2952	OKLAHOMA	812 N BRYANT	OKLAHOMA CITY	OK	73117	35.4749	-97.45902	Operating	0	0.066	0.055	12.13	12.13	0.135	7.524	0	Syn-Min
405	STANDARD IRON AND METAL CO	1467	1501 E RENO	5093	OKLAHOMA	1501 E RENO ST	OKLAHOMA CITY	OK	73101	35.4643	-97.48606	Operating	0	0	0	0.222	0.222	0	3.34	0	Min
432	TINKER AFB LOGISTICS CTR	1518	MIDWEST CITY AIR DEPOT	9711	OKLAHOMA	7701 ARNOLD ST	MIDWEST CITY	OK	73145	35.4239	-97.37121	Operating	3.648	91.035	70.534	10.02	9.412	14.76	217.93	0	Major
3689	VICINITY ENERGY OKLAHOMA CITY INC	1635	HEATING AND COOLING PLANT	4961	OKLAHOMA	ONE NORTH EK GAYLORD BLVD	OKLAHOMA CITY	OK	73102	35.4675	-97.5129	Operating	0.119	7.361	16.333	1.479	1.479	0.35	1.07	0.622	Major
460	UNIV OF OK HEALTH SCIENCES CTR	1662	OKC CAMPUS SVCS	8221	OKLAHOMA	800 NE 15TH ST	OKLAHOMA CITY	OK	73104	35.4845	-97.49865	Operating	0.323	38.181	31.234	2.911	2.904	0.703	2.322	0	Major
467	W AND W AFCO STEEL LLC	1678	1730 W RENO OKLAHOMA CITY PLANT	3441	OKLAHOMA	1730 W RENO	OKLAHOMA CITY	OK	73106	35.4641	-97.54498	Operating	0.002	0.306	0.257	3.066	0.023	2.534	13.817	0	Syn-Min
3106	MAGELLAN PIPELINE CO LP	1775	T A353 HIGH STREET TERMINAL	4613	OKLAHOMA	1250 S HIGH ST	OKLAHOMA CITY	OK	73129	35.4529	-97.49428	Operating	0	0	0	0	0	0.429	12.635	0	Min
488	XEROX CORP	1784	OKLAHOMA CITY SITE	3861	CANADIAN	100 N MUSTANG ROAD, BLDG 200	YUKON	OK	73099-5104	35.4691	-97.719	Operating	0.034	2.8	2.09	1.461	0.221	0.043	0.462	0	Major
976	OK AIR NATL GUARD - OKC	2011	WILL ROGERS AIR NATIONAL GUARD BASE	9711	OKLAHOMA	5624 AIR GUARD DR	OKLAHOMA CITY	OK	73179	35.408	-97.611	Operating	0	0.032	0.022	0.002	0.002	0	0.139	0	Min
639	WASTE MGMT OF OK	2061	EAST OAK LANDFILL	4953	OKLAHOMA	3201 MOSLEY RD	OKLAHOMA CITY	OK	73141	35.5074	-97.41469	Operating	19.73	11.97	53.79	10.38	6.75	3.642	11.319	0	Major
4327	US DOJ FED BUREAU OF PRISONS - FTC OKLAHOMA CITY	2120	FEDERAL TRANSFER CTR	9223	OKLAHOMA	7401 S MACARTHUR BLVD	OKLAHOMA CITY	OK	73169	35.3915	-97.61764	Operating	0.079	1.195	0.259	0.084	0.084	0	0.095	0	Min
2639	OKLAHOMA CITY LNDFLL LLC	2141	SOUTHEAST OKLAHOMA CITY LANDFILL	4953	OKLAHOMA	7001 S BRYANT	OKLAHOMA CITY	OK	73149	35.3959	-97.45938	Operating	14.01	7.287	33.221	11.16	6.973	3.082	9.902	0	Major
783	INTERNATIONAL ENVIR CORP	2299	AIR CONDITIONING MANUFACTURING PLANT	3585	OKLAHOMA	5000 SW 7TH ST	OKLAHOMA CITY	OK	73128	35.4592	-97.60897	Operating	0.005	0.772	0.649	0.059	0.059	0.811	13.852	0	Syn-Min
3127	CAMERON INTERNATIONAL CORPERATION - A SCHLUMBERGER HOLDINGS COMPANY	2350	CAMERON SURFACE SYSTEMS	3533	OKLAHOMA	7500 SW 29TH ST	OKLAHOMA CITY	OK	73179	35.4342	-97.64637	Operating	0	0	0	0	0	1.904	4.684	0	Syn-Min
2082	OKC WASTE DISPOSAL INC	2511	OKLAHOMA CITY LANDFILL	4953	OKLAHOMA	7600 SW 15TH ST	OKLAHOMA CITY	OK	73128	35.45	-97.648	Operating	0.004	0.002	0.011	27.95	16.661	3.227	14.132	0	Major
4112	OK FOODS INC - OKLAHOMA CITY	2641	OK FOODS OKLAHOMA CITY	2013	OKLAHOMA	7300 SW 29TH ST	OKLAHOMA CITY	OK	73179	35.435	-97.64086	Operating	0.021	3.567	2.997	0.271	0.068	0.064	0.196	0	Min
4470	QUIKRETE COMPANIES LLC	2908	QUIKRETE OKLAHOMA CITY	3273	OKLAHOMA	8000 MELROSE LN	OKLAHOMA CITY	OK	73127	35.4715	-97.65687	Operating	0.01	1.7	1.236	3.529	1.5	0	0.095	0	Syn-Min
1166	SOUTHWEST ELECTRIC CO	2943	6501 SE 74TH ST PAINTING FACILITY	3612	OKLAHOMA	6501 SE 74TH ST	OKLAHOMA CITY	OK	73135	35.392	-97.41239	Operating	0.005	0.801	0.672	0.991	0.991	6.46	20.114	0	Min
1375	BALON CORP	3208	HATTIE VALVE MFG FACILITY	3491	OKLAHOMA	3245 S HATTIE ST	OKLAHOMA CITY	OK	73129	35.4323	-97.48932	Operating	0	0	0	5.633	0	1.22	27.01	0	Syn-Min
1653	DEALERS AUTO AUCTION OF OKC	3591	1028 S PORTLAND AUTO PAINTING FACLTY	7532	OKLAHOMA	1028 S PORTLAND	OKLAHOMA CITY	OK	73147	35.455	-97.58069	Operating	0	0	0	0	0	0	2.53	0	Min
417	TJ CAMPBELL CONSTRUCTION CO	3718	SOUTH YARD	1429	OKLAHOMA	6900 S SUNNYLANE	OKLAHOMA CITY	OK	73135	35.4577	-97.56552	Operating	0.025	4.108	5.821	3.519	0.228	0.054	0.413	0	Syn-Min

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1880	UNIQUE CLNR	3878	5021 S PENN UNIQUE CLNRS	7216	OKLAHOMA	5021 S PENSYLVANIA	OKLAHOMA CITY	OK	73119	35.4214	-97.56882	Operating	0	0	0	0	0	0.272	0	0	Syn-Min
1923	PMG ONE LC	3990	8031 N CLASSEN AMERICAN CLEANERS	7216	OKLAHOMA	8031 N CLASSEN	OKLAHOMA CITY	OK	73116	35.5523	-97.52747	Operating	0	0	0	0	0	0	1.399	0	Syn-Min
1935	SWISS CLNR AND LAUNDRY INC	4035	3737 NW 50TH SWISS CLEANERS	7216	OKLAHOMA	3737 NW 50TH ST	OKLAHOMA CITY	OK	73112	35.5223	-97.58394	Operating	0	0	0	0	0	0.918	0	0	Syn-Min
1955	ROUND UP CLNR INC	4075	3009 N PENN ROUND UP CLEANERS	7216	OKLAHOMA	3009 N PENN	OKLAHOMA CITY	OK	73101	35.4678	-97.52129	Operating	0	0	0	0	0	0	0.705	0	Syn-Min
1945	GENES CLNS	4090	3020 S WESTERN GENES CLNR	7216	OKLAHOMA	3020 S WESTERN AVE	OKLAHOMA CITY	OK	73109	35.434	-97.53022	Operating	0	0	0	0	0	0.626	0	0	Syn-Min
1968	PRO CLNR INC	4093	7020 N WESTERN PRO CLEANERS	7216	OKLAHOMA	7020 N WESTERN STE 100	OKLAHOMA CITY	OK	73116	35.5426	-97.52966	Operating	0	0	0	0	0	1.632	0	0	Min
1967	CENTURY ENTERPRISES MGMT LTD	4094	2837 W WILSHIRE NICHOLS HILLS CLEANERS	7216	OKLAHOMA	2837 W WILSHIRE	OKLAHOMA CITY	OK	73116	35.551	-97.564	Operating	0	0	0	0	0	0	0.176	0	Syn-Min
1979	FASHION CLNR LAUNDRY INC	4103	106 NW 6TH FASHION CLEANERS	7216	OKLAHOMA	106 NW 6TH ST	OKLAHOMA CITY	OK	73102	35.474	-97.515	Operating	0	0	0	0	0	1.7	0	0	Syn-Min
2033	VA MEDICAL CTR	4187	921 NE 13TH ST	8062	OKLAHOMA	921 NE 13TH ST	OKLAHOMA CITY	OK	73104	35.483	-97.505	Operating	0.123	2.353	1.8	0.466	0.398	0.024	0.235	0	Min
2131	API ENTRPRS INC	4431	4901 S I35	3089	OKLAHOMA	4901 S I35	OKLAHOMA CITY	OK	73101	35.4167	-97.49156	Operating	0.005	0.784	0.658	0.06	0.06	1.064	6.138	8.75	Min
3487	INTERNATIONAL PAPER - OKC	4476	CONTAINERBOARD PACKAGING FACLITY	2653	OKLAHOMA	4901 WEST POINT BLVD	OKLAHOMA CITY	OK	73179	35.4157	-97.64347	Operating	0.013	2.155	1.81	0.384	0.164	0	1.859	0	Syn-Min
3133	LEGACY CLNR AND LAUNDRY	4989	4917 N WESTERN LEGACY CLNR	7216	OKLAHOMA	4917 N WESTERN	OKLAHOMA CITY	OK	73118	35.5206	-97.52984	Operating	0	0	0	0	0	0	0.64	0	Syn-Min
2545	CAPITAL AVIATION INC	5056	WILEY POST AIRPORT HANGER 12	3721	OKLAHOMA	5500 PHILLIP RHODES HANGER 17	BETHANY	OK	73008	35.5294	-97.64147	Operating	0	0	0	0	0	0.073	3.049	0	Min
3698	FRONTIER LOGISTICAL SERVICES LLC	5074	FRONTIER LOGISTICAL SERVICES LLC	5169	OKLAHOMA	600 N BRYANT	OKLAHOMA CITY	OK	73117	35.4726	-97.45903	Operating	0	0	0	0	0	0.62	3.41	0	Min
2591	FAA	5141	MIKE MONRONEY AERONAUTICAL CENTER	9621	OKLAHOMA	6500 S MACARTHUR BLVD	OKLAHOMA CITY	OK	73169-6901	35.3966	-97.61836	Operating	0.026	7.947	4.482	0.465	0.465	1.055	4.358	0	Min
3126	CAMERON INTL - OKC VALVES	5590	CAMERON VPS	3491	OKLAHOMA	845 SE 29TH ST	OKLAHOMA CITY	OK	73129-4829	35.4355	-97.49536	Operating	0.002	0.258	0.216	1.067	0.027	0.035	17.985	0	Min
3942	NATIONAL OILWELL VARCO LP - TUBOSCOPE SUCKER ROD INSP	5841	NOV TUBOSCOPE SUCKER ROD INSPECTION AND GUIDE COMPANY	1389	OKLAHOMA	1820 SE 40TH ST	OKLAHOMA CITY	OK	73129	35.424	-97.48	Operating	0	0	0	0	0	0	25.07	0	Syn-Min
3066	ARMACELL LLC	5877	OKLAHOMA POLYETHYLENE FOAM EXTRUSION PLANT	3086	CANADIAN	524 N SARA RD	YUKON	OK	73099	35.4723	-97.70353	Operating	0.05	5.863	9.217	0.466	0.445	0.975	168.22	0.101	Major
3330	ALLIANCE STEEL INC	6273	STEEL FABRICATION FACILITY	3448	OKLAHOMA	3333 South Council Road	OKLAHOMA CITY	OK	73179	35.4319	-97.65609	Operating	0	1.276	0.543	7.455	0.103	1.45	53.285	0	Min
3417	TIMBERLINE ENERGY LLC	6409	TIMBERLINE ENERGY AT OKC LANDFILL	4953	OKLAHOMA	2140 S ROCKWELL AVE	OKLAHOMA CITY	OK	73128	35.4434	-97.63463	Operating	17.34	48.329	9.258	3.422	3.422	0.163	4.09	0	Major
2978	MUSKET CORP	6442	SUNNYLANE AND I240 TRANSLOADING FACILITY	5172	OKLAHOMA	SUNNYLANE AND I240	DEL CITY	OK	73135	35.394	-97.447	Operating	0.002	0.015	0.013	0.002	0	0.003	0.023	0	Syn-Min
3462	FRESENIUS MEDICAL CARE NORTH AMERICA	6500	FMC SITE 4199	8092	OKLAHOMA	5510 N FRANCIS AVE	OKLAHOMA CITY	OK	73118	35.526	-97.5267	Operating	0.006	0.017	0.002	0	0	0	0	0	Min

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3515	UNIT DRILLING CO	6695	OKC FABRICATION YARD	1381	OKLAHOMA	7101 SW 29TH ST	OKLAHOMA CITY	OK	73179	35.4368	-97.63754	Operating	0.024	0.359	0.077	11.93	11.933	0.238	1.503	0	Syn-Min
3523	APPLIED IND COATINGS INC	6727	APPLIED IND COATINGS INC	3471	CLEVELAND	13920 S MERIDIAN AVE	OKLAHOMA CITY	OK	73173	35.33	-97.599	Operating	2.121	0.962	0.203	3.12	0	0.67	0.027	0	Syn-Min
4710	EDGEX DATA CENTERS LLC	6931	4442 NEWCASTLE RD	1389	OKLAHOMA	4442 NEWCASTLE RD	OKLAHOMA CITY	OK	73119	35.427	-97.596	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7038	ARCADIA CELL SITE	4812	OKLAHOMA	6109 E MEMORIAL RD	OKLAHOMA CITY	OK	73134	35.609	-97.416	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7066	BRITTON AND WESTERN	4812	OKLAHOMA	930 NW 94TH ST	OKLAHOMA CITY	OK	73114	35.566	-97.53	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7067	FOREST PARK	4812	OKLAHOMA	3000 I-35 SVC RD	OKLAHOMA CITY	OK	73111	35.499	-97.461	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7068	I 240 AND SANTA FE	4812	OKLAHOMA	7748 S HARVEY AVE	OKLAHOMA CITY	OK	73139	35.389	-97.518	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7071	TARGET	4812	OKLAHOMA	13415 N PENN	EDMOND	OK	73013	35.605	-97.551	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7120	LUTHER 211 CELL SITE	4812	OKLAHOMA	15712 HOGBACK RD	LUTHER	OK	73054	35.63	-97.238	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7129	DOWNTOWN 201 CELL SITE	4812	OKLAHOMA	1123 IRVING ST	OKLAHOMA CITY	OK	73129	35.453	-97.475	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7230	CAPITOL HILL	4812	OKLAHOMA	1145 SW 29TH STREET	OKLAHOMA CITY	OK	73109	35.4354	-97.53613	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7231	150TH AND SANTA FE	4812	OKLAHOMA	229 NW 150TH STREET	EDMOND	OK	73013	35.6241	-97.51759	Operating	0	0	0	0	0	0	0	0	Min
3462	FRESENIUS MEDICAL CARE NORTH AMERICA	7256	FMC SITE 6988 NW OKC	8092	OKLAHOMA	3107 NW 50TH STREET	OKLAHOMA CITY	OK	73112	35.523	-97.57	Operating	0.009	0.028	0.025	0.001	0.001	0	0.028	0	Min
3447	VERIZON WIRELESS	7266	I 44 AND I 240	4812	OKLAHOMA	6359 S INDEPENDENCE	OKLAHOMA CITY	OK	73159	35.4024	-97.57522	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7267	104TH AND WESTERN	4812	CLEVELAND	412 SW 104TH ST	OKLAHOMA CITY	OK	73129	35.3612	-97.52015	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7269	56TH AND PENN	4812	OKLAHOMA	1448 SW 59TH ST	OKLAHOMA CITY	OK	73119	35.4053	-97.54329	Operating	0	0	0	0	0	0	0	0	Min
3930	LOVES TRAVEL STOPS AND COUNTRY STORES INC	7291	BUILDING H	8741	OKLAHOMA	3601 NW 63RD ST	OKLAHOMA CITY	OK	73116	35.5368	-97.58123	Operating	0.088	0.653	0.094	0.006	0.006	0	0.018	0	Min
3810	CHESAPEAKE ENERGY CORPORATION	7292	MAIN CAMPUS	8741	OKLAHOMA	6100 N WESTERN AVE	OKLAHOMA CITY	OK	73118	35.5345	-97.52957	Operating	0.13	5.878	2.5	0.137	0.094	0.038	0.352	0	Min
3447	VERIZON WIRELESS	7407	SE 104TH AND SOONER RD	4812	CLEVELAND	6420 SE 104TH ST	OKLAHOMA CITY	OK	73165	35.3629	-97.41317	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7418	OKC E BRITTON	4812	OKLAHOMA	9020 N I-35 SERVICE RD	OKLAHOMA CITY	OK	73131	35.563	-97.451	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	7569	SILVER SPRINGS	4812	OKLAHOMA	7431 NW 85TH STREET	OKLAHOMA CITY	OK	73132	35.557	-97.647	Operating	0	0	0	0	0	0	0	0	Min
746	DEVON ENERGY PRODUCTION CORP	7614	DEVON HEADQUARTERS	6719	OKLAHOMA	333 W SHERIDAN AVE	OKLAHOMA CITY	OK	73102	35.4668	-97.51876	Operating	0	1.511	0.211	0.014	0.014	0	0.024	0	Min
3835	OG AND E - TD AND TS	7804	NW SUBSTATION	4911	OKLAHOMA	7422 NW 164TH	EDMOND	OK	73034	35.6385	-97.64566	Operating	0	0.008	0.159	0	0	0	0.003	0	Min
3712	CITY PAINT WORKS LLC	7806	CITY PAINT WORKS	7532	CANADIAN	10220 W RENO	OKLAHOMA CITY	OK	73137-0604	35.4642	-97.69594	Operating	0	0	0	0	0	1.5	3.7	0	Min
3702	SOUTHWESTERN BELL TELEPHONE CO DBA AT AND T OKLAHOMA	7850	GREENFIELD CTL OFFICE	4812	OKLAHOMA	9300 N EASTERN AVE	OKLAHOMA CITY	OK	73131	35.564	-97.478	Operating	0	0.85	0.183	0	0	0	0.069	0	Min
3732	AMERICAN TOWER CORP	7925	QUAIL SPRINGS 30818	4813	OKLAHOMA	13316 N BLACKWELDER	OKLAHOMA CITY	OK	73114	35.605	-97.54	Operating	0	0.771	0.166	0	0	0	0.063	0	Min
3735	UE MANUFACTURING	7944	10000 NW 2ND ST	3561	CANADIAN	10000 NW 2ND ST	OKLAHOMA CITY	OK	73129-7149	35.47	-97.692	Operating	0	0	0	0.21	0.08	0.985	12.293	0	Min

Company ID	Company Name	Facility ID	Facility Name	SIC	County	Facility Address	City	State	Zip Code	Latitude	Longitude	Status	Sox (Tons)	Nox (Tons)	CO (Tons)	PM10 (Tons)	PM25 (Tons)	HAP (Tons)	VOC (Tons)	Toxics (Tons)	Classification
3447	VERIZON WIRELESS	8105	40TH AND EASTERN	4812	OKLAHOMA	4341 S NEBRASKA AVE	OKLAHOMA CITY	OK	73129	35.422	-97.47965	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	8106	HOBBY LOBBY	4812	OKLAHOMA	3800 S COUNCIL RD	OKLAHOMA CITY	OK	73179	35.4253	-97.65111	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	8109	ROSE HILL	4812	OKLAHOMA	6032 N PENNSYLVANIA AV	OKLAHOMA CITY	OK	73118	35.5333	-97.53873	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	8110	TV 9	4812	OKLAHOMA	7401 N KELLY AVE	OKLAHOMA CITY	OK	73064	35.5495	-97.4972	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	8111	48TH AND SHIELDS	4812	OKLAHOMA	5007 S SHIELDS BLVD	OKLAHOMA CITY	OK	73129	35.4151	-97.5092	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	8112	MED TOWER EAST	4812	OKLAHOMA	2725 NW 50TH ST	OKLAHOMA CITY	OK	73112	35.5237	-97.5633	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	8113	LUTHER ARCADIA	4812	OKLAHOMA	11224 NE 141ST ST	JONES	OK	73049	35.6156	-97.33235	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	8121	HIGHWAY 37 AND WESTERN	4812	CLEVELAND	226 SW 134TH ST	MOORE	OK	73170	35.3324	-97.51766	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	8122	I 40 AND MUSTANG RD	4812	CANADIAN	11108 SW 15TH ST	OKLAHOMA CITY	OK	73099	35.448	-97.72	Operating	0	0	0	0	0	0	0	0	Min
3749	HERBERT MALARKEY ROOFING COMPANY	8304	OKLAHOMA CITY PLANT	2952	OKLAHOMA	3400 S COUNCIL RD	OKLAHOMA CITY	OK	73179	35.4312	-97.65337	Operating	0.11	10.58	10.59	5.88	0.64	0.755	18.25	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	8312	OKC OK MTSO	4812	OKLAHOMA	3800 S DOUGLAS AVE	OKLAHOMA CITY	OK	73109	35.427	-97.534	Operating	0	18.129	3.905	0	0	0	1.48	0	Min
3705	AT AND T CORP	8373	OK 1014 ROCKWELL OKC PORTABLE GENERATOR WAREHOUSE	4812	OKLAHOMA	235 N ROCKWELL	OKLAHOMA CITY	OK	73127	35.467	-97.636	Operating	0	0.51	0.11	0	0	0	0.042	0	Min
3791	AAA FIBERGLASS SERVICES LLC	9261	AAA PLANT	3999	CLEVELAND	3940 SW 113TH ST	OKLAHOMA CITY	OK	73173	35.362	-97.44199	Operating	0	0.017	0.014	0.053	0.001	2.553	4.772	0	Min
3821	CENTEK INC	9638	CENTEK FACILITY	3533	OKLAHOMA	5500 SW 36TH ST	OKLAHOMA CITY	OK	73179	35.4265	-97.61437	Operating	0.004	0.03	0.51	0.06	0.06	0	0.6	0	Syn-Min
3447	VERIZON WIRELESS	9739	FAIRGROUNDS OK	4812	OKLAHOMA	4065 NW 3RD ST	OKLAHOMA CITY	OK	73107	35.4696	-97.5891	Operating	0	0	0	0	0	0	0	0	Min
3690	DUININCK INC	9772	CONCRETE PLANT CP002	3273	OKLAHOMA	TINKER AFB	OKLAHOMA CITY	OK	73145	35.4212	-97.39154	Operating	0	0	0	0.958	0	0	0	0	Min
3835	OG AND E - TD AND TS	9934	GENERAL SERVICE CENTER	4911	OKLAHOMA	7700 S HIGH STREET	OKLAHOMA CITY	OK	73129	35.3904	-97.49286	Operating	0	0.233	1.728	0	0	0	0.013	0	Min
3835	OG AND E - TD AND TS	9938	METRO SERVICE CENTER	4911	OKLAHOMA	3220 S HIGH AVE	OKLAHOMA CITY	OK	73129-5030	35.4331	-97.49473	Operating	0	0.185	0.058	0	0	0	0.014	0	Min
3835	OG AND E - TD AND TS	9939	NORTH DISTRICT SERVICE CENTER	4911	OKLAHOMA	220 E WILSHIRE BLVD	OKLAHOMA CITY	OK	73105-1006	35.5511	-97.50896	Operating	0	2.348	0.09	0	0	0	0.02	0	Min
3849	COMPASS MANUFACTURING LLC	10137	OKC COMPASS SHOP	3533	CLEVELAND	0.18 MI N OF HW 44 / SW 119TH	OKLAHOMA CITY	OK	73154	35.3511	-97.58616	Operating	1.075	10.838	3.407	1.256	0.975	0.876	8.475	0	Min
3732	AMERICAN TOWER CORP	10258	NEWALLA 307999	4813	OKLAHOMA	7506 S. Indian Meridian	Choctaw	OK	73020	35.3914	-97.24707	Operating	0	0.264	0.057	0	0	0	0.022	0	Min
3663	US CELLULAR	10291	LINCOLN AND RENO SITE RELO 851562	4812	OKLAHOMA	200 SE 4TH ST	OKLAHOMA CITY	OK	73104	35.46	-97.50726	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	10863	NW EXPWY AND CNTY LINE	4812	CANADIAN	9315 NW EXPRESSWAY	OKLAHOMA CITY	OK	73132	35.5792	-97.68095	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	10865	SW 119TH AND MAY	4812	CLEVELAND	12203 S. MAY AVE	OKLAHOMA CITY	OK	73170	35.3464	-97.567	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	10874	DT PARKING GARAGE	4812	OKLAHOMA	NE ROBERT S. KERR / BROADWAY	OKLAHOMA CITY	OK	73102	35.4701	-97.5142	Operating	0	0	0	0	0	0	0	0	Min

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3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	10978	WESTERN EDMOND CELL TOWER CLLC10111126	4812	OKLAHOMA	17650 NORTH WESTERN AVENUE	EDMOND	OK	73003	35.6513	-97.52919	Operating	0	0.026	0.006	0	0	0	0.002	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	10996	E MEMORIAL OKC CELL TOWER CLLC10000535	4812	OKLAHOMA	2501 EAST MEMORIAL ROAD	OKLAHOMA CITY	OK	73131	35.6131	-97.475	Operating	0	0.003	0.001	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	10997	NW 138 OKC CELL TOWER CLLC10000555	4812	OKLAHOMA	2736 NORTHWEST 138TH STREET	OKLAHOMA CITY	OK	73134	35.6113	-97.56295	Temporarily Shutdown	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	10998	S MAY OKC CELL TOWER CLLC10009450	4812	CLEVELAND	12203 SOUTH MAY AVENUE	OKLAHOMA CITY	OK	73170	35.3464	-97.567	Operating	0	0.047	0.01	0	0	0	0.004	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	10999	S WESTERN OKC CELL TOWER CLLC10029452	4812	CLEVELAND	11704 SOUTH WESTERN AVENUE	OKLAHOMA CITY	OK	73170	35.3511	-97.52729	Operating	0	0.143	0.031	0	0	0	0.012	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	11000	W BRITTON OKC CELL TOWER CLLC10030092	4812	OKLAHOMA	8303 WEST BRITTON ROAD	OKLAHOMA CITY	OK	73132	35.5661	-97.6614	Operating	0	0.066	0.014	0	0	0	0.005	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	11001	BRANDON PL OKC CELL TOWER CLLC10097886	4812	OKLAHOMA	13550 BRANDON PLACE	OKLAHOMA CITY	OK	73142	35.6078	-97.62766	Operating	0	0.013	0.003	0	0	0	0.001	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	11002	SW 59TH OKC CELL TOWER CLLC10111879	4812	OKLAHOMA	834 SW 59TH ST	OKLAHOMA CITY	OK	73109	35.4058	-97.52886	Operating	0	0.029	0.006	0	0	0	0.002	0	Min
3732	AMERICAN TOWER CORP	11035	BROOKWOOD OK SITE 308000	4813	OKLAHOMA	.16MI NE OF SWESTERN/SW89TH ST	OKLAHOMA CITY	OK	73139	35.3788	-97.5282	Operating	0	0.04	0.009	0	0	0	0.003	0	Min
3447	VERIZON WIRELESS	11039	SHILLING PARK	4812	OKLAHOMA	0.61 MI NE SE29THST/S CENTRAL	OKLAHOMA CITY	OK	73129	35.442	-97.4993	Operating	0	0	0	0	0	0	0	0	Min
3732	AMERICAN TOWER CORP	11041	8TH AND PORTLAND OK SITE 307994	4813	OKLAHOMA	0.08 MI SW OF NW8TH/N PORTLAND	OKLAHOMA CITY	OK	73107	35.4744	-97.5844	Operating	0	0.051	0.011	0	0	0	0.004	0	Min
3447	VERIZON WIRELESS	11089	WILL ROGERS PARK	4812	OKLAHOMA	3003 N. GRAND BLVD.	OKLAHOMA CITY	OK	73107	35.4991	-97.58036	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11105	TINKER AFB	4812	OKLAHOMA	5903 SE 61ST	OKLAHOMA CITY	OK	73135	35.4052	-97.41982	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11106	STATE CAPITOL	4812	OKLAHOMA	0.13MI NW OF NE23RDST/NKELLEY	OKLAHOMA CITY	OK	73103	35.4948	-97.4957	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11107	STARS AND STRIPES	4812	OKLAHOMA	0.38MI NE OF NWEXPWY/N MERIDIN	OKLAHOMA CITY	OK	73116	35.5462	-97.5971	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11129	I 240 AND DOUGLAS	4812	OKLAHOMA	9112 SE 74TH	OKLAHOMA CITY	OK	73150	35.3916	-97.36845	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11134	WARR ACRES	4812	OKLAHOMA	6901 NW 63RD ST	OKLAHOMA CITY	OK	73132	35.5388	-97.6331	Operating	0	0	0	0	0	0	0	0	Min
3732	AMERICAN TOWER CORP	11195	WESTERN OK 1 OK SITE 307955	4813	CLEVELAND	16000 S. WESTERN	OKLAHOMA CITY	OK	73072	35.3016	-97.52771	Operating	0	0.038	0.008	0	0	0	0.003	0	Min
3732	AMERICAN TOWER CORP	11198	SW 30TH OK SITE 307957	4813	OKLAHOMA	2900 SE 30TH ST	OKLAHOMA CITY	OK	73129	35.4337	-97.4611	Operating	0	0.038	0.008	0	0	0	0.003	0	Min
3732	AMERICAN TOWER CORP	11212	HIGHLANDS OK1 308066	4813	OKLAHOMA	.05MI SW OF NW117/STRATFORD DR	OKLAHOMA CITY	OK	73120	35.5886	-97.5543	Operating	0	0.059	0.013	0	0	0	0.005	0	Min
3732	AMERICAN TOWER CORP	11223	XEROX OK 307998	4813	CANADIAN	.28MI NE OF S YUKONPKWY/NW10TH	YUKON	OK	73099	35.4794	-97.7197	Operating	0	0.038	0.008	0	0	0	0.003	0	Min

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3447	VERIZON WIRELESS	11254	MELTON PARK	4812	OKLAHOMA	140 NW 44TH ST	OKLAHOMA CITY	OK	73118	35.5168	-97.51555	Operating	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	11257	NW 10TH ST AND COUNCIL OK 1874	4812	OKLAHOMA	7804 NW 10TH ST	OKLAHOMA CITY	OK	73127	35.4784	-97.65034	Operating	0	0.06	0.013	0	0	0	0.005	0	Min
3732	AMERICAN TOWER CORP	11301	MADISON OK6 307988	4813	OKLAHOMA	0.1 MI NE23RD ST AND KELLY AVE	OKLAHOMA CITY	OK	73111	35.4945	-97.4931	Operating	0	0.042	0.009	0	0	0	0.003	0	Min
3732	AMERICAN TOWER CORP	11302	BARTEL OK 307989	4813	OKLAHOMA	0.18MI N NE23RD ST AND BARTEL RD	OKLAHOMA CITY	OK	73121	35.4961	-97.4326	Operating	0	0.067	0.014	0	0	0	0.005	0	Min
3447	VERIZON WIRELESS	11320	HEFNER PARKWAY	4812	OKLAHOMA	.22MI SW OF NW122ND/LAKE HEFN	OKLAHOMA CITY	OK	73134	35.5915	-97.58588	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11322	CROSSROADS	4812	OKLAHOMA	0.31 MI W OF EASTERN/SE 66TH	OKLAHOMA CITY	OK	73148	35.3976	-97.48251	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11357	MEMORIAL AND BRYANT	4812	OKLAHOMA	3001 E MEMORIAL RD	EDMOND	OK	73013	35.6097	-97.45928	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11361	NICHOLS HILLS	4812	OKLAHOMA	7423 N MAY AVE	OKLAHOMA CITY	OK	73116	35.5462	-97.5667	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11377	OLD BETHANY	4812	OKLAHOMA	0.13 MI N 10TH ST AND COUNCIL RD	BETHANY	OK	73008	35.4808	-97.65366	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11434	3RD AND SHARTEL	4812	OKLAHOMA	SW 3RD ST / S SHARTEL AVE	OKLAHOMA CITY	OK	73109	35.4621	-97.5261	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11463	WILL ROGERS AP	4812	CLEVELAND	0.29MI NE SW119TH ST/S ROCKWEL	OKLAHOMA CITY	OK	73173	35.3496	-97.63058	Operating	0	0	0	0	0	0	0	0	Min
4545	CONTANGO RESOURCES INC	11474	WILL ROGERS UNIT 23 CTR BATT	1311	OKLAHOMA	4401 AMELIA EARHART LANE	OKLAHOMA CITY	OK	73159	35.4072	-97.5961	Operating	0	0.537	0.451	0	0	0	33.412	0	Syn-Min
3732	AMERICAN TOWER CORP	11562	SE 29TH AND LINDSAY OK 308006	4813	OKLAHOMA	707 SE 29TH	OKLAHOMA CITY	OK	73129	35.4358	-97.4988	Operating	0	0.069	0.015	0	0	0	0.006	0	Min
3732	AMERICAN TOWER CORP	11563	TOLAN PARK OK 308091	4813	OKLAHOMA	112 N. BLACKWELLDER	OKLAHOMA CITY	OK	73106	35.4681	-97.5388	Operating	0	0.042	0.009	0	0	0	0.003	0	Min
3732	AMERICAN TOWER CORP	11564	CROSS CREEK OK 274888	4813	OKLAHOMA	2250 NW 192ND ST.	OKLAHOMA CITY	OK	73003	35.667	-97.55378	Operating	0	0.036	0.008	0	0	0	0.003	0	Min
3732	AMERICAN TOWER CORP	11566	EAST MOORE OK SITE 308015	4813	CLEVELAND	9220 S SUNNY LANE	OKLAHOMA CITY	OK	73165	35.3748	-97.4392	Operating	0	0.08	0.017	0	0	0	0.007	0	Min
3732	AMERICAN TOWER CORP	11567	DRAPER LAKE OK SITE 308029	4813	CLEVELAND	11515 SE 109TH STREET	OKLAHOMA CITY	OK	73165	35.3588	-97.3256	Operating	0	0.059	0.013	0	0	0	0.005	0	Min
3732	AMERICAN TOWER CORP	11586	SE 64TH AND SHEILDS OK 308027	4813	OKLAHOMA	7002 S SHIELDS	OKLAHOMA CITY	OK	73149	35.3956	-97.50702	Operating	0	0.048	0.01	0	0	0	0.004	0	Min
3732	AMERICAN TOWER CORP	11589	S MUSTANG OK 308071	4813	CANADIAN	11736 SW 104TH ST	MUSTANG	OK	73064	35.3603	-97.7324	Operating	0	0.053	0.011	0	0	0	0.004	0	Min
3732	AMERICAN TOWER CORP	11590	WALNUT CREEK OK6 OK 308069	4813	OKLAHOMA	5730 NW 10TH ST	OKLAHOMA CITY	OK	73127	35.4775	-97.6175	Operating	0	0.036	0.008	0	0	0	0.003	0	Min
3732	AMERICAN TOWER CORP	11591	FLEMING OK SITE 308093	4813	OKLAHOMA	13624 RAILWAY DR	OKLAHOMA CITY	OK	73114	35.6081	-97.5022	Operating	0	0.051	0.011	0	0	0	0.004	0	Min
3447	VERIZON WIRELESS	11653	164TH AND PENN	4812	OKLAHOMA	0.2 MI N OF NW164TH&N PENN AVE	OKLAHOMA CITY	OK	73013	35.6415	-97.5474	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11663	BETHANY WOS 1	4812	OKLAHOMA	0.2 MI W OF SW8TH&S COUNCIL RD	OKLAHOMA CITY	OK	73128	35.4589	-97.65767	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11665	BROADWAY	4812	OKLAHOMA	0.4 MI NE OF KELLEY/KILPATRICK	OKLAHOMA CITY	OK	73131	35.6012	-97.48956	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	11669	WASHINGTON PK	4812	OKLAHOMA	916 NE 1ST ST	OKLAHOMA CITY	OK	73102	35.4668	-97.49595	Operating	0	0	0	0	0	0	0	0	Min

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3732	AMERICAN TOWER CORP	11680	SARA OK 308254	4813	CANADIAN	10220 W RENO AVE	OKLAHOMA CITY	OK	73127	35.4626	-97.70041	Operating	0	0.073	0.016	0	0	0	0.006	0	Min
3732	AMERICAN TOWER CORP	11682	ROBINSON OK1 307959	4813	OKLAHOMA	NW 96TH ST / N ROBINSON AVE	OKLAHOMA CITY	OK	73114	35.5685	-97.51556	Operating	0	0.076	0.016	0	0	0	0.006	0	Min
3732	AMERICAN TOWER CORP	11685	BELLE ISLE OK 308089	4813	OKLAHOMA	5520 BELLE ISLE BLVD	OKLAHOMA CITY	OK	73118	35.5271	-97.5349	Operating	0	0.038	0.008	0	0	0	0.003	0	Min
3732	AMERICAN TOWER CORP	11689	PLEASANT RIDGE OK 308064	4813	OKLAHOMA	11010 NE 150TH ST UNIT C	OKLAHOMA CITY	OK	73049	35.6188	-97.335	Operating	0	0.061	0.013	0	0	0	0.005	0	Min
3732	AMERICAN TOWER CORP	11692	RENO AND MAY OK 308035	4813	OKLAHOMA	106 S ROSS	OKLAHOMA CITY	OK	73107	35.466	-97.5628	Operating	0	0.036	0.008	0	0	0	0.003	0	Min
3732	AMERICAN TOWER CORP	11693	NW 39TH AND GRAND OK 308090	4813	OKLAHOMA	3312 NW 38TH ST	OKLAHOMA CITY	OK	73112	35.5096	-97.57451	Operating	0	0.036	0.008	0	0	0	0.003	0	Min
3732	AMERICAN TOWER CORP	11716	SW 64TH AND MAY OK 308026	4813	OKLAHOMA	6615 S MAY AVE	OKLAHOMA CITY	OK	73159	35.3978	-97.5663	Operating	0	0.044	0.009	0	0	0	0.004	0	Min
3447	VERIZON WIRELESS	11747	REMINGTON PARK 2	4812	OKLAHOMA	0.1 MI W OF MLK AVE/NE57TH ST	OKLAHOMA CITY	OK	73111	35.5292	-97.47854	Operating	0	0	0	0	0	0	0	0	Min
3944	NATIONAL OILWELL VARCO LP - MISSION PRODUCTS	11949	NOV COMPLETION AND PRODUCTION SOLUTIONS	3533	OKLAHOMA	2951 S COUNCIL RD	OKLAHOMA CITY	OK	73179	35.4357	-97.6545	Permanently Shutdown	0	0	0	0	0	0	0	0	Syn-Min
3922	FEDEX GROUND PACKAGE SYSTEM INC	12029	FEDEX GROUND OKLAHOMA CITY 731 ZOKL	4215	OKLAHOMA	2701 SW 18TH ST	OKLAHOMA CITY	OK	73108	35.4469	-97.56182	Operating	0.004	0.062	0.013	0.004	0.004	0	0.005	0	Min
3447	VERIZON WIRELESS	12034	I 40 AND MACARTHUR	4812	OKLAHOMA	0.2 MI N I40/MACARTHUR BLVD	OKLAHOMA CITY	OK	73128	35.463	-97.61675	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	12037	I 240 AND I 40	4812	OKLAHOMA	13800 SE 71 ST	OKLAHOMA CITY	OK	73150	35.3963	-97.28609	Operating	0	0	0	0	0	0	0	0	Min
3107	TARGA PIPELINE MIDCONTINENT LLC	12044	OKC CORPORATE OFFICE	1311	OKLAHOMA	14000 QUAIL SPRINGS PARKWAY	OKLAHOMA CITY	OK	73134	35.6122	-97.57415	Operating	0	0	0	0.001	0.001	0	0	0	Min
3732	AMERICAN TOWER CORP	12064	DRIVERS HILL OK SITE 308020	4813	OKLAHOMA	9020 N I35 SERVICE ROAD	OKLAHOMA CITY	OK	73131	35.5625	-97.4509	Operating	0	0.049	0.011	0	0	0	0.004	0	Min
4520	PO AND G OPERATING LLC	12068	WALTHER 1 1	1311	CANADIAN	0.7 MI SW OF S RICHLAND/ SW 80TH	MUSTANG	OK	73064	35.3717	-97.78406	Temporarily Shutdown	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	12550	CZECH HALL AND RENO	4812	CANADIAN	12144 WEST RENO AVE	OKLAHOMA CITY	OK	73099	35.4637	-97.74195	Operating	0	0	0	0	0	0	0	0	Min
3952	THERMAL SPCLTY HEAT TREATING LLC	12579	THERMAL SPCLTY HEAT TREATING FACLTY	3398	OKLAHOMA	3700 S EASTERN AVE	OKLAHOMA CITY	OK	73129	35.4274	-97.4762	Operating	0.004	0.747	17.081	0.057	0.057	0.013	0.041	0	Syn-Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12583	OK1413 SW 15TH AND PENN	4812	OKLAHOMA	2012 S WESTWOOD BLVD	OKLAHOMA CITY	OK	73108	35.4455	-97.54583	Operating	0	0.066	0.014	0	0	0	0.005	0	Min
3447	VERIZON WIRELESS	12603	CAPITOL CELL	4812	OKLAHOMA	2412 N WALKER	OKLAHOMA CITY	OK	73103	35.4942	-97.52085	Operating	0	0	0	0	0	0	0	0	Min
1375	BALON CORP	12674	EASTERN VALVE MFG FACILITY	3491	OKLAHOMA	3700 S EASTERN AVE	OKLAHOMA CITY	OK	73129	35.4274	-97.4762	Operating	0	0	0	1.35	0	0.012	4.264	0	Syn-Min
3447	VERIZON WIRELESS	12727	QUAILBROOK	4812	OKLAHOMA	4401 W MEMORIAL RD	OKLAHOMA CITY	OK	73134	35.6115	-97.60261	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	12729	MED TOWER RELO WEST	4812	OKLAHOMA	3550 NORTHWEST EXPRESSSWAY	OKLAHOMA CITY	OK	73112	35.5317	-97.58099	Operating	0	0	0	0	0	0	0	0	Min
4351	CITIZEN ENERGY III LLC	12846	SPECHT 1 6	1311	CANADIAN	0.35 M N OF NW 150/N COUNTRLINE	OKLAHOMA CITY	OK	73099	35.629	-97.67477	Temporarily Shutdown	0	0	0	0	0	0	0	0	Min

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3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12873	OK1885 SARA AND NORTHWEST 164TH	4812	CANADIAN	16406 N SARA RD	PIEDMONT	OK	73078	35.6378	-97.70901	Operating	0	0.038	0.008	0	0	0	0.003	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12893	OK 1873 MORGAN AND HIGHWAY 152	4812	CANADIAN	5217 S MORGAN RD	MUSTANG	OK	73064	35.4131	-97.68842	Operating	0	0.049	0.01	0	0	0	0.004	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12900	OK1697 122ND AND BROADWAY EXTENSION	4812	OKLAHOMA	11517 BROADWAY EXTENSION	OKLAHOMA CITY	OK	73114	35.5869	-97.51571	Operating	0	0.142	0.031	0	0	0	0.012	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12901	OK1821 89TH AND MERIDIAN	4812	CLEVELAND	9450 S COUNCIL RD	MOORE	OK	73160	35.3729	-97.65181	Operating	0	0.119	0.026	0	0	0	0.01	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12902	OK1832 I 44 AND NORTHWEST 19TH	4812	OKLAHOMA	1601 N PORTLAND AVE	OKLAHOMA CITY	OK	73107	35.4855	-97.58361	Operating	0	0.033	0.005	0	0	0	0.001	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12905	OK1878 89TH AND ANDERSON	4812	OKLAHOMA	11320 SOUTHEAST 74TH ST	OKLAHOMA CITY	OK	73150	35.39	-97.3291	Operating	0	0.056	0.012	0	0	0	0.005	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12906	OK1879 BRITTON AND MIDWEST BOULEVARD	4812	OKLAHOMA	8260 E BRITTON RD	JONES	OK	73049	35.5653	-97.38422	Operating	0	0.097	0.021	0	0	0	0.008	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12924	OK1418 DANFORTH AND WESTERN	4812	OKLAHOMA	0.25 MI S NW192NDST/N WESTERN	EDMOND	OK	73012	35.6638	-97.53118	Operating	0	0.063	0.014	0	0	0	0.005	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12932	OK1850 39TH AND CLASSEN	4812	OKLAHOMA	4312 CLASSEN BLVD	OKLAHOMA CITY	OK	73118	35.5162	-97.53378	Operating	0	0.037	0.005	0	0	0	0.002	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12935	OK1856 SW 19TH AND WALKER	4812	OKLAHOMA	113 SW 21TH ST	OKLAHOMA CITY	OK	73109	35.4443	-97.51596	Operating	0	0.074	0.016	0	0	0	0.006	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	12942	OK1929 S WESTERN AND SW 134	4812	CLEVELAND	700 SW 134TH ST	OKLAHOMA CITY	OK	73170	35.3335	-97.52564	Operating	0	0.02	0.004	0	0	0	0.002	0	Min
3974	OK MED RESEARCH FOUNDATION	13178	OMRF	8733	OKLAHOMA	825 NE 13TH ST	OKLAHOMA CITY	OK	73104	35.4838	-97.49873	Operating	0.006	0.133	0.046	0.008	0.008	0	0.009	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	13592	PORTLAND AND 150TH OK1841	4812	OKLAHOMA	15404 N PORTLAND	EDMOND	OK	73013	35.6238	-97.58303	Operating	0	0.027	0.006	0	0	0	0.002	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	13616	CROWN HIGHTS OK1254	4812	OKLAHOMA	3704 N WALKER AVE	OKLAHOMA CITY	OK	73118	35.5088	-97.5208	Operating	0	0.022	0.005	0	0	0	0.002	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	13617	DALLAS JCT RELOCATE OK1289	4812	OKLAHOMA	1004 E RENO AVE	OKLAHOMA CITY	OK	73117	35.4659	-97.49847	Operating	0	0.073	0.016	0	0	0	0.006	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	13619	SE 15TH AND I 35 RELO OK1300	4812	OKLAHOMA	2610 S I35 SERVICE RD	OKLAHOMA CITY	OK	73129	35.4384	-97.48426	Operating	0	0.009	0.002	0	0	0	0.001	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	13620	TINKER EAST OK1849	4812	OKLAHOMA	9333 SE 49TH ST	OKLAHOMA CITY	OK	73150	35.4158	-97.3648	Operating	0	0.021	0.004	0	0	0	0.002	0	Min

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3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	13621	WILL ROGERS OK1154	4812	OKLAHOMA	6403 S MERIDIAN	OKLAHOMA CITY	OK	73159	35.4016	-97.6015	Operating	0	0.018	0.004	0	0	0	0.001	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	13644	MUSTANG TRAILS OK1871	4812	CANADIAN	200 S CZECH HALL RD	YUKON	OK	73099	35.4637	-97.74194	Operating	0	0.054	0.012	0	0	0	0.004	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	13645	SE 59TH AND BRYANT OK1356	4812	OKLAHOMA	3530 SE 59TH ST	OKLAHOMA CITY	OK	73135	35.4049	-97.45195	Operating	0	0.021	0.005	0	0	0	0.002	0	Min
4178	FREYMILLER FIVE LLC	13783	NOMAC DIRECTIONAL OKC OFFICE	5521	OKLAHOMA	5701 SW 5TH ST	OKLAHOMA CITY	OK	73128	35.4594	-97.61574	Operating	0	0.068	0.136	0	0	0	0.034	0	Min
3447	VERIZON WIRELESS	13859	SILVER LAKE	4812	OKLAHOMA	9501 N MACARTHUR BLVD	OKLAHOMA CITY	OK	73162	35.5665	-97.61959	Operating	0	0	0	0	0	0	0	0	Min
4643	777 NW 63RD STREET TIC	13878	77 CORPORATE	1389	OKLAHOMA	777 NW 63RD ST	OKLAHOMA CITY	OK	73116	35.5372	-97.52338	Operating	0.157	0.206	0.111	0.043	0.043	0	0.048	0	Min
4351	CITIZEN ENERGY III LLC	14119	ROBBERSON RANCH 15 6 15 7 CTB	1311	CANADIAN	EOF EAGLE WAY AND S MUSTANG RD	MUSTANG	OK	73064	35.3375	-97.7097	Temporarily Shutdown	0	0	0	0	0	0	0	0	Min
4007	T MOBILE USA	14233	T MOBILE OKLAHOMA CITY SWITCH	4812	OKLAHOMA	4533 ENTERPRISE DR	OKLAHOMA CITY	OK	73128	35.4514	-97.60259	Operating	0	0.881	0.158	0.025	0	0	0	0	Min
3447	VERIZON WIRELESS	14385	I 40 AND MORGAN RD OK	4812	CANADIAN	9848 NW 10TH ST	OKLAHOMA CITY	OK	73127	35.4777	-97.69213	Operating	0	0	0	0	0	0	0	0	Min
3975	MIDCON ENERGY OPERATING LLC	14423	ROBBERSON 14 3 14 5 CENTRAL TANK BATTERY	1311	CANADIAN	1.5 MI E OF LITTLE ACRES	MUSTANG	OK	73064	35.3469	-97.7001	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	14482	OAKCLIFF OK	4812	OKLAHOMA	5502 SE 44TH	OKLAHOMA CITY	OK	73135	35.4194	-97.42465	Operating	0	0	0	0	0	0	0	0	Min
2745	WAL MART STORES EAST LP	14667	WALMART NEIGHBORHOOD MARKET 3202	5541	OKLAHOMA	4900 S SOONER RD	OKLAHOMA CITY	OK	73135	35.4157	-97.42357	Operating	0	0	0	0	0	0	0.813	0	Min
4032	CEFARI RNG OKC LLC	14683	SOUTHEAST OKC RNG	4925	OKLAHOMA	7001 S BRYANT AVE	OKLAHOMA CITY	OK	73129	35.3959	-97.4593	Operating	0.731	15.789	54.343	1.71	1.71	1.38	0.181	0	Major
3447	VERIZON WIRELESS	14726	NW 23RD AND MACARTHUR	4812	OKLAHOMA	5902 NW 28TH ST	OKLAHOMA CITY	OK	73127	35.4984	-97.61943	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	14727	SW 15TH AND MERIDIAN	4812	OKLAHOMA	5012 SW 20H ST	OKLAHOMA CITY	OK	73128	35.4437	-97.60832	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	14738	TINKER EAST	4812	OKLAHOMA	9333 SE 29TH ST	OKLAHOMA CITY	OK	73150	35.4158	-97.36476	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	14764	4TH AND I 35	4812	OKLAHOMA	1218 N IRVING ST	OKLAHOMA CITY	OK	73117	35.481	-97.47326	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	14788	SW 29TH AND HWY 92	4812	CANADIAN	0.08 MI NE SW44TH/S CEMETERY	OKLAHOMA CITY	OK	73099	35.4212	-97.75872	Not Yet Built	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	14791	SW 149TH AND PENN	4812	CLEVELAND	0.04MISW OF SJAMIE DR/PENN AVE	OKLAHOMA CITY	OK	73170	35.3249	-97.54839	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	14854	39TH AND KILPATRICK	4812	CANADIAN	0.39MI W WAGNER/JOHN KILPATRK	YUKON	OK	73099	35.5228	-97.70436	Not Yet Built	0	0	0	0	0	0	0	0	Min
3900	SAMS EAST INC	14962	SAMS CLUB 7189	5541	OKLAHOMA	4101 North May Avenue	OKLAHOMA CITY	OK	73112	35.5116	-97.56576	Operating	0	0	0	0	0	0	2.755	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	15398	STATE CAPITAL PARK 10009447	4812	OKLAHOMA	36 NE 26TH ST	OKLAHOMA CITY	OK	73105	35.4966	-97.51047	Operating	0	0.004	0.001	0	0	0	0	0	Min

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3955	BAKER HUGHES OILFIELD OPERATIONS INC	15505	BHI MCOE	3533	OKLAHOMA	12701C N SANTA FE AVE	OKLAHOMA CITY	OK	73114	35.5985	-97.51385	Operating	0.017	2.9	2.436	0.559	0.415	3.409	4.818	0	Min
4068	WAIP LLC	15521	DOT PHMSA	9199	OKLAHOMA	3700 S MCCARTHUR	OKLAHOMA CITY	OK	73179	35.4278	-97.61704	Operating	0	0	0	0	0	0	0	0	Min
4542	BLUE CEDAR ENERGY LLC	15580	REIMERS 2 12	1311	CANADIAN	0.95 MI SW REIMERS/SW104TH ST	MUSTANG	OK	73064	35.3491	-97.78646	Operating	0	0.17	0.29	0.002	0.002	0.043	1.093	0	Min
4228	MCCLARIN PLASTICS LLC	15659	MCCLARIN PLASTICS LLC OKLAHOMA DIVISION	3089	OKLAHOMA	3949 NW 36TH ST	OKLAHOMA CITY	OK	73112	35.5085	-97.58885	Operating	0	0	0	0	0	10.37	11.338	0	Major
2745	WAL MART STORES EAST LP	15664	WALMART NEIGHBORHOOD MARKET 5323	5541	CLEVELAND	13505 S SANTA FE AVE	OKLAHOMA CITY	OK	73170	35.3333	-97.51334	Operating	0	0	0	0	0	0	1.363	0	Min
4190	TRP OK PROPERTIES LLC	15805	W SHORT JUNCTION UNIT STAGE II PAD I	1311	CLEVELAND	0.58 MI W OF SE134TH/US62 E	MOORE	OK	73173	35.3339	-97.60238	Operating	0	0	0	0	0	0	0.055	0	Min
2745	WAL MART STORES EAST LP	15908	WALMART SUPERCENTER 7326	5541	CLEVELAND	3301 SW 104TH ST	OKLAHOMA CITY	OK	73159	35.3632	-97.57793	Operating	0	0	0	0	0	0	3.341	0	Min
3835	OG AND E - TD AND TS	16006	OGE CORPORATE HEADQUARTERS	4911	OKLAHOMA	321 N HARVEY AVE	OKLAHOMA CITY	OK	73101	35.4718	-97.51796	Operating	0	0.014	0.002	0	0	0	0	0	Min
3447	VERIZON WIRELESS	16011	COUNCIL HWY 74	4812	OKLAHOMA	0.22 MI NW OF SW 74TH/COUNCIL RD	OKLAHOMA CITY	OK	73179	35.3947	-97.65555	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	16014	NORTH MAY OK	4812	OKLAHOMA	0.22 MI SE OF NW150TH/MAY AVE	OKLAHOMA CITY	OK	73134	35.6208	-97.565	Operating	0	0	0	0	0	0	0	0	Min
4096	WARREN POWER MACHINERY DBA WARREN CAT	16046	WARREN CAT PSD OKLAHOMA CITY	5084	OKLAHOMA	15 N MERIDAN AVE	OKLAHOMA CITY	OK	73107	35.4648	-97.60151	Operating	0	0	0	0	0	0.075	1.468	0	Min
4105	DIRECTV GROUP HOLDINGS LLC	16111	OKLAHOMA CITY E1240 SERVICE RD OKCAOKXY DUP	4812	OKLAHOMA	3800 E I240 SERVICE RD	OKLAHOMA CITY	OK	73135	35.3897	-97.45713	Operating	0	0.01	0.017	0	0	0	0	0	Min
4651	OKLAHOMA STATE UNIVERSITY DISCOVERY	16293	OSU DISCOVERY	8731	OKLAHOMA	300 NE 9TH ST	OKLAHOMA CITY	OK	73104	35.477	-97.50734	Operating	0	0.949	0.571	0	0	0	0.042	0	Syn-Min
2745	WAL MART STORES EAST LP	16381	WALMART NEIGHBORHOOD MARKET 3327	5541	CLEVELAND	2900 SW 134TH ST	OKLAHOMA CITY	OK	73170	35.3338	-97.56588	Operating	0	0	0	0	0	0	0.914	0	Min
4132	OKLAHOMA CITY OF OKC UTIL DEPT	16386	DRAPER WATER TRMT PLT GEN SYSTEM FACILITY	4941	CLEVELAND	13700 S DOUGLAS BLVD	OKLAHOMA CITY	OK	73165	35.3288	-97.37074	Operating	0	10.268	2.21	0.238	0.238	0	0	0	Min
4464	MAGNUM ENERGY INC	16401	WILEY POST 1 5 2 5 3 5 4 5 SWD	1311	OKLAHOMA	0.7 MI SE WILSHIRE/COUNCIL RD	BETHANY	OK	73008	35.5495	-97.64238	Operating	0	0.053	0.048	0.003	0.003	0	1.149	0	Min
4139	LANGSAM HEALTH SVCS LLC	16425	OMNICARE OF OKC 48325	5912	OKLAHOMA	4141 HIGHLINE BLVD, STE 100	OKLAHOMA CITY	OK	73108	35.4578	-97.59361	Operating	0	0.04	0.002	0	0	0	0	0	Min
965	BNSF RAILWAY CO	16485	FLYNN YARD	4011	OKLAHOMA	8401 S EASTERN AVE	OKLAHOMA CITY	OK	73149	35.3852	-97.48328	Operating	0.002	0.032	0.007	0.002	0.002	0	0.02	0	Min
4158	UNIFIRST CORP	16589	UNIFIRST CORP OKC PLT	7218	OKLAHOMA	2130 E CALIFORNIA AVE	OKLAHOMA CITY	OK	73129	35.4651	-97.47287	Operating	0	0.909	0.764	6.44	3.59	0.326	2.396	0	Syn-Min
4351	CITIZEN ENERGY III LLC	16616	LINN OFFICE EMERGENCY GENERATOR	6512	OKLAHOMA	14701 HERTZ QUAIL SPRINGS PWY	OKLAHOMA CITY	OK	73134	35.6203	-97.57455	Temporarily Shutdown	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	16617	N COUNCIL AND MEMORIAL	4812	OKLAHOMA	14317 N COUNCIL RD	OKLAHOMA CITY	OK	73142	35.6147	-97.66056	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	16619	I 40 AND PEEBLY RD	4812	OKLAHOMA	7825 S PEEBLY RD	NEWALLA	OK	74857	35.3878	-97.21472	Operating	0	0	0	0	0	0	0	0	Min

Company ID	Company Name	Facility ID	Facility Name	SIC	County	Facility Address	City	State	Zip Code	Latitude	Longitude	Status	Sox (Tons)	Nox (Tons)	CO (Tons)	PM10 (Tons)	PM25 (Tons)	HAP (Tons)	VOC (Tons)	Toxics (Tons)	Classification
3447	VERIZON WIRELESS	16620	WILSHIRE AND KILPATRICK OK	4812	CANADIAN	0.5 MI NE WILSHIRE/KILPATRICK	YUKON	OK	73099	35.5584	-97.6875	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	16622	SW 134TH AND I 44 OK	4812	CLEVELAND	13502 S TULSA DR	OKLAHOMA CITY	OK	73170	35.3315	-97.59231	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	16625	NE 102ND AND BROADWAY EXTENSION	4812	OKLAHOMA	9920 N LINCOLN BLVD	OKLAHOMA CITY	OK	73130	35.5714	-97.50373	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	16626	59TH AND WALKER OK	4812	OKLAHOMA	5710 S WALKER AVE	OKLAHOMA CITY	OK	73109	35.4079	-97.51953	Operating	0	0	0	0	0	0	0	0	Min
4199	MATERIALS PACKAGING CORP	16907	MATERIALS PACKAGING CORP	3272	OKLAHOMA	6512 S SUNNYLANE RD	OKLAHOMA CITY	OK	73135	35.402	-97.44001	Operating	0.014	2.318	1.947	2.104	0	0	0.127	0	Syn-Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	16928	OKV1498 THE VILLAGE NSB FA13453292	4812	OKLAHOMA	9017 N UNIVERSITY AVE SUITE B	OKLAHOMA CITY	OK	73116	35.5626	-97.53729	Operating	0	0.07	0.01	0	0	0	0.003	0	Min
4699	FORMENTERA OPERATIONS	16983	HARDY 25 11 6 1WH BENNETT 24 11 6 1WH PRODUCTION FACILITY	1311	CANADIAN	0.2 MI NW OF SW 59TH ST/FRISCO RD	MUSTANG	OK	73099	35.4069	-97.77933	Operating	0	3.923	7.847	0	0	0	4.639	0	Min
3447	VERIZON WIRELESS	17275	SW 44TH AND MORGAN	4812	CANADIAN	10148 SW 44TH ST	MUSTANG	OK	73064	35.4179	-97.69767	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	17277	NW 178TH AND PORTLAND	4812	OKLAHOMA	3302 NW 178TH ST	EDMOND	OK	73034	35.6518	-97.57623	Operating	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	17278	SW 15TH AND PORTLAND	4812	OKLAHOMA	2505 S GRAND BLVD	OKLAHOMA CITY	OK	73108	35.4407	-97.57091	Operating	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	17284	NW 122ND SARA FA10593156	4812	CANADIAN	10620 NW 122ND ST	YUKON	OK	73099	35.5946	-97.70937	Operating	0	0.043	0.009	0	0	0	0.004	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	17285	OK STATE FAIR VENUE FA12812653	4812	OKLAHOMA	3109 NEOSHO AVE	OKLAHOMA CITY	OK	73107	35.4755	-97.57061	Operating	0	0.033	0.005	0	0	0	0.001	0	Min
4351	CITIZEN ENERGY III LLC	17432	MCNEFF NORTH PAD	1311	CANADIAN	1.2 MI NE N OF MUSTANG RD/SILVERCITY RIDGE RD	MUSTANG	OK	73064	35.334	-97.7216	Operating	0.007	4.974	18.508	0.235	0.235	0.023	18.937	0	Min
1009	MARATHON OIL CO	17460	WISE 1306 1 13MH	1311	CANADIAN	0.1 MI NE OF N RICHLAND RD/ NW 122ND ST	YUKON	OK	73099	35.5954	-97.79717	Operating	0.003	3.718	13.286	0.088	0.088	0.026	5.115	0	Syn-Min
3447	VERIZON WIRELESS	17524	WOODS	4812	OKLAHOMA	14403 SE 29TH PLACE	CHOCTAW	OK	73020	35.4359	-97.27475	Operating	0	0	0	0	0	0	0	0	Min
1009	MARATHON OIL CO	17546	BARLOW 1305 1 18MH	1311	CANADIAN	0.1 MILES WSW OF NW122ND ST AND N CEMETERY RD	PIEDMONT	OK	73099	35.5939	-97.76489	Operating	0.003	2.373	10.052	0.083	0.083	0.019	4.392	0	Syn-Min
4240	SIGNATURE LANDSCAPE LLC	17624	SIGNATURE LANDSCAPE	4953	OKLAHOMA	9600 N EASTERN AVENUE	OKLAHOMA CITY	OK	73113	35.5678	-97.4778	Operating	0.075	3.002	1.667	1.5	0.825	0	0.077	0	Syn-Min
4351	CITIZEN ENERGY III LLC	17695	DORIS PAD	1311	CANADIAN	0.15 MI NE OF SW104TH ST/ FRISCO RD	MUSTANG	OK	73064	35.3642	-97.7794	Operating	0	2.085	3.524	0.099	0.099	0	12.297	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	17818	I 40 HARRAH FA10152632	4812	OKLAHOMA	7508 S HARRAH RD	NEWALLA	OK	74857	35.3912	-97.15926	Temporarily Shutdown	0	0	0	0	0	0	0	0	Min
3447	VERIZON WIRELESS	17836	HEFNER AND N COUNCIL	4812	OKLAHOMA	10914 N COUNCIL RD	OKLAHOMA CITY	OK	73162	35.5811	-97.65559	Operating	0	0	0	0	0	0	0	0	Min
3563	SCHLUMBERGER TECH CORP	17975	SCHLUMBERGER D AND M FACILITY	1389	CANADIAN	10546 NW 10TH ST	OKLAHOMA CITY	OK	73127	35.4775	-97.70588	Temporarily Shutdown	0	0	0	0	0	0	0	0	Min

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4699	FORMENTERA OPERATIONS	17991	HASTEN 26 11 6 1H PRODUCTION FACILITY	1311	CANADIAN	0.15 MI SE OF SW 59TH/CIMARRON RD	YUKON	OK	73064	35.4049	-97.81172	Operating	0	19.195	19.148	0	0	0	3.387	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18135	OKC SX WCR24 OKLAHOMA CITY SSC	9621	OKLAHOMA	0.65 MI NW OF I 240/S POST RD	OKLAHOMA CITY	OK	73145	35.402	-97.3594	Operating	0.009	0.129	0.028	0.009	0.009	0	0.011	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18136	OKCA SX WCR24 OKLAHOMA CITY SSC	9621	OKLAHOMA	0.4 MI N OF S MERIDIAN/SW 74TH ST	OKLAHOMA CITY	OK	73159	35.398	-97.60006	Operating	0.005	0.077	0.017	0.005	0.005	0	0.006	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18137	OKCB SX WCR24 OKLAHOMA CITY SSC	9621	CLEVELAND	0.6 MI N OF SW 104TH ST/MERIDIAN AVE	OKLAHOMA CITY	OK	73169	35.3705	-97.60172	Operating	0.001	0.017	0.004	0.001	0.001	0	0.001	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18138	OKCC SX WCR24 OKLAHOMA CITY SSC	9621	CLEVELAND	0.1 MI S OF SW89TH/S MERIDIAN AVE	OKLAHOMA CITY	OK	73179	35.3766	-97.60168	Operating	0.001	0.017	0.004	0.001	0.001	0	0.001	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18139	OKCE SX WCR24 OKLAHOMA CITY SSC	9621	OKLAHOMA	0.2 MI N OF SW 89TH/S MACARTHUR RD	OKLAHOMA CITY	OK	73169	35.3786	-97.61889	Operating	0.015	0.222	0.048	0.016	0.016	0	0.018	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18142	RGRB SX WCR24 OKLAHOMA CITY SSC	9621	OKLAHOMA	0.01 MI W OF SW 89TH/S PORTLAND AVE	OKLAHOMA CITY	OK	73179	35.3774	-97.58381	Operating	0.01	0.147	0.032	0.01	0.01	0	0.012	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18147	IRW SX WCR22 SOUTHWEST OKLAHOMA SSC	9621	CLEVELAND	0.65 MI SE OF SW104TH/S MACARTHUR	OKLAHOMA CITY	OK	73173	35.3586	-97.60917	Operating	0.001	0.016	0.003	0.001	0.001	0	0.001	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18150	PWA SX WCR22 SOUTHWEST OKLAHOMA SSC	9621	OKLAHOMA	0.65 MI W OF NW 63RD ST/ROCKWELL AVE	OKLAHOMA CITY	OK	73008	35.5342	-97.64706	Operating	0	0.003	0	0	0	0	0	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18151	RGR SX WCR22 SOUTHWEST OKLAHOMA SSC	9621	OKLAHOMA	0.4 MI NW OF SW89 TH ST/S PORTLAND AVE	OKLAHOMA CITY	OK	73179	35.3813	-97.58758	Operating	0	0.004	0	0	0	0	0	0	Min
4279	FEDERAL AVIATION ADMINISTRATION	18152	RGRA SX WCR22 SOUTHWEST OKLAHOMA SSC	9621	OKLAHOMA	0.4 MI SW OF S PORTLAND/SW 59TH ST	OKLAHOMA CITY	OK	73179	35.402	-97.58725	Operating	0	0.007	0.002	0	0	0	0.001	0	Min
4699	FORMENTERA OPERATIONS	18179	STEJSKAL 36 25 11 6 1H 2H PRODUCTION FACILITY	1311	CANADIAN	0.5 MI E OF W RENO AVE/N RICHLAND AVE	YUKON	OK	73099	35.4651	-97.78528	Operating	0	4.258	8.136	0	0	0	8.312	0	Min
3447	VERIZON WIRELESS	18202	CHISHOLM CREEK	4812	OKLAHOMA	0.3 MI SE OF N WESTERN AVE/ W MEMORIAL RD	OKLAHOMA CITY	OK	73114	35.607	-97.52663	Operating	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	18271	4403 SOUTHEAST 36TH FA10152639	4812	OKLAHOMA	0.5 MI S OF S MERIDIAN AVE/ SW 29TH ST	OKLAHOMA CITY	OK	73119	35.428	-97.60005	Operating	0	0.108	0.023	0	0	0	0.009	0	Min
3047	CANVAS ENERGY LLC	18280	KILIMANJARO 1106 1WH 2 KILIMANJARO 1106 1UMH 2	1311	CANADIAN	0.01 MI NW OF SW 15TH/RICHLAND RD	YUKON	OK	73099	35.4504	-97.79589	Operating	0	0.904	2.258	0.068	0.068	0	20.408	0	Min
1009	MARATHON OIL CO	18324	BRENDA CHAPMAN 1 25 36MXH	1311	CANADIAN	0.2 MI E OF W HEFNER/N RICHLAND RD	PIEDMONT	OK	73099	35.5796	-97.79604	Operating	0.003	1.519	4.378	0.085	0.085	0.005	4.563	0	Syn-Min
4291	WAUKESHA PEARCE INDUSTRIES INC	18326	WAUKESHA PEARCE INDUSTRIES INC	5084	OKLAHOMA	2101 S COUNCIL RD	OKLAHOMA CITY	OK	73128	35.4443	-97.65467	Operating	0	0.035	0.058	0.025	0.004	0.2	0.505	0	Min
4699	FORMENTERA OPERATIONS	18534	GAMBLE PRODUCTION FACILITY	1311	CANADIAN	0.1 MI NW OF CIMARRON RD/SW15TH	YUKON	OK	73099	35.4504	-97.81383	Operating	0	5.244	8.966	0	0	0	9.414	0	Min
4306	AMAZON.COM SERVICES LLC	18633	AMAZON.COM SERVICES LLC OKC5	4225	OKLAHOMA	1414 S COUNCIL RD	OKLAHOMA CITY	OK	73128	35.4519	-97.65103	Operating	0	0	0	0	0	0	0	0	Min
1009	MARATHON OIL CO	18694	MASON TREECE 1305 1 17 8MXH	1311	CANADIAN	0.3 MI SW OF NW 122ND ST/PIEDMONT RD	OKLAHOMA CITY	OK	73099	35.5927	-97.74895	Operating	0.003	30.929	6.698	0.09	0.09	0.027	6.665	0	Syn-Min
4351	CITIZEN ENERGY III LLC	18847	CARPENTER 1H 11 14	1311	CANADIAN	0.2 MI SW OF SW 104TH ST/ N RICHARD RD	MUSTANG	OK	73090	35.3613	-97.79777	Operating	0	3.31	13.886	0	0	0	4.91	0	Min

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4351	CITIZEN ENERGY III LLC	18851	RIKELLA 1H 16 9 3H 21	1311	CANADIAN	0.8 MI W OF SW 134TH ST/OK4	MUSTANG	OK	73064	35.334	-97.738	Operating	0.009	0.748	0.587	0.281	0.281	0.026	39.737	0	Min
4351	CITIZEN ENERGY III LLC	18854	TOY DARROW FACILITY	1311	CANADIAN	0.56 MI N SW 119TH ST/S CEMETERY RD	MUSTANG	OK	73090	35.3534	-97.76165	Operating	0	5.29	9.29	0.276	0.276	0	18.667	0	Syn-Min
4351	CITIZEN ENERGY III LLC	18855	KANON FACILITY	1311	CANADIAN	0.2 MI W OF SW29TH ST/CIMARRON RD	MUSTANG	OK	73036	35.4359	-97.81609	Operating	0	3.709	16.111	0	0	0	9.108	0	Min
4293	CAMINO NATURAL RESOURCES LLC	18894	HASTA 1206 23 1MH LA VISTA 1206 26 1WH	1311	CANADIAN	0.2 MI E OF NW 23RD ST/N CIMARRON RD	YUKON	OK	73099	35.4934	-97.81198	Operating	4.885	9.22	9.097	2.788	0	0	40.073	0	Syn-Min
4777	BEST BLOCK LLC	18909	BEST BLOCK OKLAHOMA CITY	1422	OKLAHOMA	7100 S SUNNYLANE ROAD	OKLAHOMA CITY	OK	73135	35.3939	-97.44104	Operating	0.094	0.69	0.26	0.477	0.062	0	0.114	0	Syn-Min
3777	GLB EXPLORATION INC	18985	SALVATION ARMY 1	1311	OKLAHOMA	0.2 MI SW OF PENN AVE/PARK PL	OKLAHOMA CITY	OK	73106	35.4765	-97.55025	Operating	0	0.215	0.181	0	0	0	5.899	0	Min
3777	GLB EXPLORATION INC	19083	BRITTON PARK PAD	1311	OKLAHOMA	CORNER OF NW 99TH ST/GARNETT DR	OKLAHOMA CITY	OK	73114	35.571	-97.52762	Operating	0	0.215	0.181	0	0	0	4.136	0	Min
4372	OKLAHOMA MILITARY DEPARTMENT	19112	OKLAHOMA NATIONAL GUARD JOINT FORCE HEADQUARTERS	9711	OKLAHOMA	3501 MILITARY CIRCLE	OKLAHOMA CITY	OK	73111-4305	35.5058	-97.4684	Operating	0	0.024	0.04	0	0	0	0	0	Min
4345	COSTCO WHOLESALE	19173	COSTCO GASOLINE LOC NO 1350	5541	OKLAHOMA	13220 N WESTERN AVE	OKLAHOMA CITY	OK	73114	35.6046	-97.53051	Operating	0	0	0	0	0	0	3.249	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	19246	C SHADID RL FA10152606	4812	OKLAHOMA	2904 SW 44TH ST	OKLAHOMA CITY	OK	73119	35.4206	-97.56562	Operating	0	0.006	0.001	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	19247	A JUBILEE RL FA13293498	4812	OKLAHOMA	12001 N WESTERN AVE	OKLAHOMA CITY	OK	73114	35.5922	-97.53328	Operating	0	0.024	0.003	0	0	0	0.001	0	Min
4351	CITIZEN ENERGY III LLC	19287	LOUDERMILK PAD	1311	CANADIAN	0.15 MI SW OF SW 89TH ST/S CZECH HALL RD	MUSTANG	OK	73064	35.3761	-97.7431	Operating	0	0.333	0.32	0	0	0	3.552	0	Syn-Min
4351	CITIZEN ENERGY III LLC	19291	BAILEY 1H 20 29 PAD	1311	CANADIAN	0.15 MI N OF FIELD WORK RD/S CZECH HALL RD	OKLAHOMA CITY	OK	73089	35.3354	-97.7416	Operating	0	0.346	0.38	0	0	0	4.194	0	Syn-Min
4351	CITIZEN ENERGY III LLC	19292	GRANT PAD	1311	CANADIAN	0.3 MI W OF SW59TH ST/S RICHLAND RD	MUSTANG	OK	73099	35.407	-97.798	Operating	0.003	4.281	16.501	0.105	0.105	0.01	4.183	0	Min
4376	TMOBILE CENTRAL LLC	19529	T MOBILE 89TH AND SHIELDS	4812	CLEVELAND	9219 B S SHIELDS BLVD	OKLAHOMA CITY	OK	73160	35.3748	-97.506	Operating	0	0	0	0	0	0	0	0	Min
4376	TMOBILE CENTRAL LLC	19534	T MOBILE BEDFORD	4812	OKLAHOMA	701 NW 63RD ST	OKLAHOMA CITY	OK	73116	35.5372	-97.52355	Not Yet Built	0	0	0	0	0	0	0	0	Min
4376	TMOBILE CENTRAL LLC	19542	T MOBILE DIXIE	4812	OKLAHOMA	2503 E MEMORIAL RD	OKLAHOMA CITY	OK	73013	35.6132	-97.47499	Operating	0	0	0	0	0	0	0	0	Min
4351	CITIZEN ENERGY III LLC	19591	MCNEFF SOUTH PAD	1311	CANADIAN	0.5MI SE FIELDWORK RD/OK4 JN	MUSTANG	OK	73089	35.3323	-97.7174	Operating	0.003	25.717	16.316	0.102	0.102	0.031	19.218	0	Min
4351	CITIZEN ENERGY III LLC	19620	FRANK EATON 36 1 11 6 1XH	1311	CANADIAN	0.2 MI E OF OK152/S RICHLAND RD	MUSTANG	OK	73064	35.391	-97.793	Operating	0	0.707	1.226	0.033	0.033	0	5.926	0	Syn-Min
4376	TMOBILE CENTRAL LLC	19759	DOWNEY	4812	OKLAHOMA	11517 BROADWAY EXTENSION RD	OKLAHOMA CITY	OK	73114	35.587	-97.51603	Operating	0	0	0	0	0	0	0	0	Min
4376	TMOBILE CENTRAL LLC	19769	COUNTYLINE AND WILSHIRE	4812	CANADIAN	8600 NORTH MORGAN RD	OKLAHOMA CITY	OK	73099	35.5583	-97.68761	Operating	0	0	0	0	0	0	0	0	Min
4376	TMOBILE CENTRAL LLC	19771	SHEPHERD MALL	4812	OKLAHOMA	2816 N VILLA E911	OKLAHOMA CITY	OK	73107	35.4983	-97.55565	Operating	0	0	0	0	0	0	0	0	Min
4376	TMOBILE CENTRAL LLC	19772	ROSE CREEK	4812	OKLAHOMA	3302 NW 178TH STREET	OKLAHOMA CITY	OK	73012	35.6518	-97.57626	Operating	0	0	0	0	0	0	0	0	Min

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4376	TMOBILE CENTRAL LLC	19773	NE 36TH AND COLTRANE	4812	OKLAHOMA	5300 NE 48TH STREET E911	OKLAHOMA CITY	OK	73121	35.5175	-97.42777	Operating	0	0	0	0	0	0	0	0	Min
4331	EXPONENT ENERGY III LLC	19883	CAPITOL HILL PAD	1311	OKLAHOMA	0.2 MI SE OF SW 36TH ST/WESTERN AVE	OKLAHOMA CITY	OK	73109	35.426	-97.527	Operating	0	0.215	0.18	0	0	0	29.777	0	Min
3835	OG AND E - TD AND TS	19897	CROSSTOWN FACILITY	4911	OKLAHOMA	48 SE 10TH STREET	OKLAHOMA CITY	OK	73129	35.4554	-97.50828	Operating	0	0.004	0.084	0	0	0	0.001	0	Min
4351	CITIZEN ENERGY III LLC	19916	SEABISCUIT PAD	1311	CANADIAN	0.29 MI SW FRISCO RD/W RENO	YUKON	OK	73099	35.4636	-97.78258	Operating	0	3.34	5.997	0.188	0.188	0	9.75	0	Syn-Min
3777	GLB EXPLORATION INC	19977	DRAPER 1 PAD	1311	CLEVELAND	0.45 MI SW OF SE104TH ST/S ANDERSON RD	MOORE	OK	73165	35.3594	-97.32331	Operating	0	3.202	13.796	0	0	0	3.122	0	Min
4351	CITIZEN ENERGY III LLC	20171	BARBARO PAD	1311	CANADIAN	0.5 MI S OF SW89TH ST/S CZECH HALL RD	UNION CITY	OK	73064	35.3693	-97.7429	Operating	0	2.715	4.002	0.099	0.099	0	13.923	0	Syn-Min
4351	CITIZEN ENERGY III LLC	20321	MCWHIRTER PAD	1311	CANADIAN	0.1 MI E OF SW 59TH ST/S GREGORY RD	MUSTANG	OK	73064	35.4214	-97.796	Operating	0	2.108	3.629	0.099	0.099	0	8.787	0	Syn-Min
3922	FEDEX GROUND PACKAGE SYSTEM INC	20336	FEDEX GROUND NORTH OKLAHOMA CITY 732 ZNOK	4215	OKLAHOMA	14748 N LINCOLN BLVD	EDMOND	OK	73013	35.6214	-97.50243	Operating	0	0	0	0	0	0	0	0	Min
4351	CITIZEN ENERGY III LLC	20454	BENDA PAD	1311	CANADIAN	0.01MI SE SW59TH ST/S GREGORY RD	UNION CITY	OK	73064	35.4053	-97.82965	Operating	0	8.139	9.358	0.113	0.113	0	6.802	0	Syn-Min
4351	CITIZEN ENERGY III LLC	20509	SIMPSON 4 3MH	1311	CANADIAN	0.5MI W N SARA RD/NW 150TH ST JN	PIEDMONT	OK	73078	35.6243	-97.71704	Operating	0	0.13	0.18	0	0	0	3.03	0	Min
4351	CITIZEN ENERGY III LLC	20659	EARL PAD	1311	CANADIAN	0.4MI E OF SW 89TH ST/S CIMARRON RD	MUSTANG	OK	73064	35.3764	-97.80659	Operating	0	15.294	22.111	0.454	0.454	0	29.656	0	Syn-Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	20981	REDBARN 14756808	4812	CANADIAN	11108 SW 15TH ST	OKLAHOMA CITY	OK	73128	35.4487	-97.72001	Operating	0	0.018	0.003	0	0	0	0.001	0	Min
4096	WARREN POWER MACHINERY DBA WARREN CAT	21014	WARREN CAT PSD OKLAHOMA CITY ANN ARBOR	5084	OKLAHOMA	4 N ANN ARBOR	OKLAHOMA CITY	OK	73107	35.4667	-97.60991	Operating	1.149	33.774	6.195	1.405	1.405	0.016	1.488	0	Min
3777	GLB EXPLORATION INC	21066	SCREAMING EAGLE 1 29H	1311	OKLAHOMA	0.45 MI NE OF I40/S PEEBLY RD	MIDWEST CITY	OK	73020	35.393	-97.21463	Operating	0	3.417	13.796	0	0	0	8.586	0	Min
471	WESTERN FARMERS ELECTRIC COOPERATIVE	21100	FRANKLIN SW	4911	CLEVELAND	0.1 MI SE OF SE 164 ST/ WILLOW BEND AVE	OKLAHOMA CITY	OK	73165	35.3049	-97.39718	Operating	0	0.005	0.196	0	0	0	0	0	Min
4306	AMAZON.COM SERVICES LLC	21210	AMAZON.COM SERVICES LLC OKC1	4225	CLEVELAND	9201 S PORTLAND AVE	OKLAHOMA CITY	OK	73159	35.3685	-97.57973	Operating	0	0	0	0	0	0	0	0	Min
4351	CITIZEN ENERGY III LLC	21278	RUSSELL 1305 4 31MH	1311	CANADIAN	0.2 MI SE OF W BRITTON RD/N FRISCO RD	YUKON	OK	73099	35.5645	-97.77655	Operating	0	0.65	1.31	0	0	0	2.972	0	Min
4351	CITIZEN ENERGY III LLC	21279	EMBRY 1305 1 32MH 1305 3 29MH	1311	CANADIAN	0.15 MI E OF W BRITTON RD/N CEMETERY RD	YUKON	OK	73099	35.5648	-97.76009	Operating	0	0.25	0.34	0	0	0.041	4.852	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	21360	I 40 AND COUNCIL RELO	4812	OKLAHOMA	8215 SW 3RD ST	OKLAHOMA CITY	OK	73127	35.4627	-97.65847	Not Yet Built	0	0	0	0	0	0	0	0	Min
3835	OG AND E - TD AND TS	21378	NCWWTP OGE PUMPING STATION	4911	OKLAHOMA	12800 N ANDERSON RD	OKLAHOMA CITY	OK	73049	35.5979	-97.31206	Operating	0	0.066	0.005	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	21421	OKC BROADCAST SOUTH 14646564	4812	OKLAHOMA	7415 N KELLY AVE	OKLAHOMA CITY	OK	73105	35.5493	-97.49301	Not Yet Built	0	0	0	0	0	0	0	0	Min
4351	CITIZEN ENERGY III LLC	21434	CARPENTER 1306 3 24MH	1311	CANADIAN	0.28 MI E OF W HEFNER/NRICHLAND RD	YUKON	OK	73099	35.5807	-97.79464	Operating	0	0	0.12	0	0	0	2.671	0	Min

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4351	CITIZEN ENERGY III LLC	21435	BOLDING 1305 1 20MH	1311	CANADIAN	12701 W HEFNER RD	YUKON	OK	73099	35.5805	-97.75531	Operating	0	0	0.2	0	0	0.039	4.761	0	Min
4351	CITIZEN ENERGY III LLC	21438	WATERLOO 1305 1 9MH	1311	CANADIAN	0.5 MI E OF NW 150TH ST/PIEDMONT RD	PIEDMONT	OK	73099	35.6234	-97.73712	Operating	0	0.12	0.15	0	0	0	2.786	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	21463	BRICKTOWN 14870325	4812	OKLAHOMA	101B S MICKEY MANTLE DR	OKLAHOMA CITY	OK	73104	35.4652	-97.50943	Not Yet Built	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	21495	168TH AVE SE 89TH STREET 12705357	4812	CLEVELAND	18803 LILLIE DR UNIT A	OKLAHOMA CITY	OK	74857	35.3538	-97.19862	Operating	0	0.026	0.006	0	0	0	0.002	0	Min
4351	CITIZEN ENERGY III LLC	21508	TATER 27 34 11 PAD	1311	CANADIAN	0.22 MI W OF S CIMARRON RD/SW 59TH ST	UNION CITY	OK	73036	35.4054	-97.81746	Operating	0	0.696	0.778	0	0	0	7.59	0	Syn-Min
4699	FORMENTERA OPERATIONS	21520	JETSON PAD	1311	OKLAHOMA	0.48 MI W OF NW 150TH/N ROCKWELL AVE	PIEDMONT	OK	73142	35.623	-97.64616	Operating	0	3.914	16.936	0	0	0	49.242	0	Min
4351	CITIZEN ENERGY III LLC	21524	SKYWALKER 34 27 11 6 PAD	1311	CANADIAN	0.3 MI W OF SW 89TH ST/S GREGORY RD	UNION CITY	OK	73064	35.378	-97.82501	Operating	0	0.691	0.753	0	0	0	7.068	0	Syn-Min
3462	FRESENIUS MEDICAL CARE NORTH AMERICA	21527	FMC 100890 NORTH LAKE OK	8092	OKLAHOMA	3012 NW 150th ST	Oklahoma City	OK	73134	35.6237	-97.56949	Operating	0.024	0.078	0.068	0.004	0.004	0	0.078	0	Min
3930	LOVES TRAVEL STOPS AND COUNTRY STORES INC	21559	LOVES TRAVEL STOP 205	5541	OKLAHOMA	12225 N I 35	OKLAHOMA CITY	OK	73131	35.5938	-97.43682	Operating	0	0	0	0	0	0	1.253	0	Min
3930	LOVES TRAVEL STOPS AND COUNTRY STORES INC	21560	LOVES TRAVEL STOP 211	5541	OKLAHOMA	845 SE 89TH ST	OKLAHOMA CITY	OK	73149	35.3786	-97.49628	Operating	0	0	0	0	0	0	1.217	0	Min
3930	LOVES TRAVEL STOPS AND COUNTRY STORES INC	21588	LOVES TRAVEL STOP 486	5541	OKLAHOMA	7401 S CHOCTAW RD	CHOCTAW	OK	73020	35.3957	-97.26544	Operating	0	0	0	0	0	0	1.353	0	Min
3930	LOVES TRAVEL STOPS AND COUNTRY STORES INC	21592	LOVES COUNTRY STORE 245	5541	OKLAHOMA	3233 SW 89TH ST	OKLAHOMA CITY	OK	73159	35.3772	-97.5736	Operating	0	0	0	0	0	0	0.991	0	Min
4699	FORMENTERA OPERATIONS	21656	GADWALL REMINGTON PRODUCTION FACILITY	1311	CANADIAN	0.6 MI SE OF NW 10TH ST/N FRISCO RD	OKLAHOMA CITY	OK	73099	35.4725	-97.77098	Operating	0.002	1.82	3.28	0.12	0.12	0.276	5.28	0	Min
3184	NATIONAL OILWELL VARCO LP	21687	NOV OKLAHOMA CITY RIG OFFSHORE	3533	OKLAHOMA	6440 SW 44TH ST	OKLAHOMA CITY	OK	73179	35.4205	-97.6269	Operating	0	0.175	0.147	0.094	0	0.035	1.256	0	Min
4511	FARMERS INSURANCE	21688	FARMERS INSURANCE CLAIM CENTER	6411	OKLAHOMA	7340 W MEMORIAL RD	OKLAHOMA CITY	OK	73142	35.6094	-97.64199	Operating	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	21699	QUAIL RIDGE TOWER 11575912	4812	OKLAHOMA	11216 N MAY AVE	OKLAHOMA CITY	OK	73120	35.5886	-97.5543	Not Yet Built	0	0	0	0	0	0	0	0	Min
3690	DUININCK INC	21777	KLEEMANN ROCK CRUSHER MR 110 ZI EVO2	1429	OKLAHOMA	TINKER AFB	OKLAHOMA CITY	OK	73110	35.4321	-97.37802	Operating	0	0	0	0.958	0	0	0	0	Syn-Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	21837	OKL01828 NEWALLA 15010691	4812	OKLAHOMA	0.22 MI NE OF SE 74TH/S DOBBS RD	NEWALLA	OK	74857	35.3974	-97.17622	Operating	0	0.028	0.006	0	0	0	0.002	0	Min
4306	AMAZON.COM SERVICES LLC	21838	AMAZON.COM SERVICES LLC DOK4	4225	OKLAHOMA	0.17 MI NW S AIR DEPOT/SE 64TH	OKLAHOMA CITY	OK	73135	35.398	-97.40861	Operating	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	21865	PETRO 10008287	4812	OKLAHOMA	28 N MARTIN LUTHER KING	OKLAHOMA CITY	OK	73117	35.4657	-97.47381	Operating	0	0.007	0.001	0	0	0	0.001	0	Min
4560	PURFOODS LLC DBA MOMS MEALS	21903	PURFOODS LLC	2038	OKLAHOMA	SW 67TH ST AND ROCKWELL AVE	OKLAHOMA CITY	OK	73169	35.3979	-97.62623	Not Yet Built	0	0	0	0	0	0	0	0	Syn-Min
4376	TMOBILE CENTRAL LLC	21940	OK01138A 12TH STREET	4812	OKLAHOMA	1316 NE 12TH STREET	OKLAHOMA CITY	OK	73117	35.481	-97.489	Operating	0	0	0	0	0	0	0	0	Min

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4568	PLATFORM COATINGS LLC	21946	PLATFORM COATINGS LLC	3471	OKLAHOMA	400 S VERMONT AVE STE 100	OKLAHOMA CITY	OK	73108	35.4608	-97.59373	Operating	0	0	0	0	0	0	0	0	Min
4312	TRAVIS PEAK RESOURCES LLC	21955	STEJSKAL 1H 35 PAD	1311	CANADIAN	0.6 MI E OF CIMARRON RD ON RENO	YUKON	OK	73099	35.4651	-97.80318	Operating	0	4.593	16.557	0	0	0	6.875	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	22044	SW 29TH AND PORTLAND 10006291	4812	OKLAHOMA	3423 SW 29TH ST	OKLAHOMA CITY	OK	73108	35.4359	-97.57667	Not Yet Built	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	22082	OKL01923 N GAILLARDIA 11575916	4812	OKLAHOMA	15129 N MACARTHUR BLVD	EDMOND	OK	73013	35.6245	-97.62189	Not Yet Built	0	0	0	0	0	0	0	0	Min
4306	AMAZON.COM SERVICES LLC	22085	AMAZON.COM SERVICES LLC OKC2	4225	OKLAHOMA	8991 SOUTH PORTLAND AVENUE	OKLAHOMA CITY	OK	73159	35.3813	-97.57991	Operating	0.166	0.558	0.146	0.012	0.012	0	0.018	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	22133	OKL01955 SE 22 OKC 15193774	4812	OKLAHOMA	1603 SE 22ND ST	OKLAHOMA CITY	OK	73129	35.4431	-97.48256	Operating	0	0.004	0.001	0	0	0	0	0	Min
742	QUINTIN LITTLE CO INC THE	22178	YGGS COMPRESSOR FACILITY MILDRED 1	1311	CANADIAN	0.3 MI NW OF W RENO RD/FRISCO RD	YUKON	OK	73099	35.4688	-97.78434	Operating	0	1.078	1.943	0	0	0.26	6.218	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	22196	NE 23RD AND I 35 10007876	4812	OKLAHOMA	2827 NE GRAND BLVD	OKLAHOMA CITY	OK	73121	35.4985	-97.46461	Operating	0	0.011	0.002	0	0	0	0.001	0	Min
4376	TMOBILE CENTRAL LLC	22209	OK01303X	4812	OKLAHOMA	10600 NE 71ST STREET	OKLAHOMA CITY	OK	73084	35.5427	-97.3411	Not Yet Built	0	0	0	0	0	0	0	0	Min
4376	TMOBILE CENTRAL LLC	22210	THORNHILL OK01320B	4812	CLEVELAND	14625 S MAY AVE	OKLAHOMA CITY	OK	73170	35.3231	-97.567	Operating	0	0	0	0	0	0	0	0	Min
4699	FORMENTERA OPERATIONS	22262	WINTERFELL PAD	1311	OKLAHOMA	0.55 MI SW OF N MACARTHUR AVE/NW 150TH ST	OKLAHOMA CITY	OK	73142	35.6169	-97.62865	Operating	0	7.834	24.087	0	0	0	29.802	0	Syn-Min
4376	TMOBILE CENTRAL LLC	22302	DEEP FORK OK01114D	4812	OKLAHOMA	4318 N CLASSEN BLVD UNIT B	OKLAHOMA CITY	OK	73118	35.5157	-97.53379	Operating	0	0	0	0	0	0	0	0	Min
4625	ATC PONDEROSA B 1 LLC	22316	204427 MARSHALL SQUARE	4813	OKLAHOMA	9017 N UNIVERSITY AVE	OKLAHOMA CITY	OK	74723	35.5626	-97.5373	Operating	0	0.008	0.002	0	0	0	0.001	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	22332	MORGAN RD F 10006279	4812	CANADIAN	8600 N MORGAN RD	YUKON	OK	73099	35.5583	-97.68752	Operating	0	0.001	0	0	0	0	0	0	Min
4626	AMERICAN TOWERS LLC	22338	90327 CLINE 2	4813	OKLAHOMA	4807 NW 10TH ST	OKLAHOMA CITY	OK	73127	35.4799	-97.60835	Not Yet Built	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	22460	MYRIAD GARDENS 10014144	4812	OKLAHOMA	204 S DEWEY	OKLAHOMA CITY	OK	73019	35.4638	-97.52278	Not Yet Built	0	0	0	0	0	0	0	0	Min
4376	TMOBILE CENTRAL LLC	22489	OK02002A MUSTANG NORTH	4812	CANADIAN	11108 SW 15TH ST	OKLAHOMA CITY	OK	73099	35.4486	-97.72	Not Yet Built	0	0	0	0	0	0	0	0	Min
4376	TMOBILE CENTRAL LLC	22491	OK02411B CHOCTAW ROAD	4812	OKLAHOMA	3259 S CHOCTAW RD	OKLAHOMA CITY	OK	73020	35.4317	-97.2664	Operating	0	0	0	0	0	0	0	0	Min
4653	CARVANA LLC	22584	OKLAHOMA CITY INSPECTION CENTER	7532	OKLAHOMA	5500 S ROCKWELL AVE	OKLAHOMA CITY	OK	73179	35.4119	-97.63614	Operating	0.012	1.176	0.984	0.084	0.084	0.006	2.694	0	Min
4376	TMOBILE CENTRAL LLC	22596	OK01451D SE 44TH AND BYERS	4812	OKLAHOMA	137 SE 44TH STREET	OKLAHOMA CITY	OK	73129	35.4209	-97.50855	Not Yet Built	0	0	0	0	0	0	0	0	Min
2745	WAL MART STORES EAST LP	22599	WALMART SUPERCENTER 743	5311	OKLAHOMA	100 E I240 SVC RD PAUL CARR DR	OKLAHOMA CITY	OK	73149	35.389	-97.51081	Operating	0	0.008	0.016	0.001	0.001	0	0.006	0	Min
4345	COSTCO WHOLESALE	22658	COSTCO WHOLESALE 1350	5541	OKLAHOMA	13200 N WESTERN AVE	OKLAHOMA CITY	OK	73114	35.6046	-97.53051	Operating	0	0	0	0	0	0	0	0	Min

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4351	CITIZEN ENERGY III LLC	22659	MCNEFF EAST PAD	1311	CANADIAN	0.5 MI E OF OK4/SILVER CITY RIDGE RD	MUSTANG	OK	73064	35.3335	-97.71337	Operating	0	3.587	7.229	0.188	0.188	0	29.302	0	Syn-Min
4489	BCE MACH II LLC	22666	WHEATLAND CTB FACILITY	1311	CLEVELAND	0.5 MI E OF SW 104TH ST/I44	OKLAHOMA CITY	OK	73170	35.3621	-97.5742	Operating	0	7.32	8.276	0	0	2.179	11.778	0	Min
4662	HUBBELL UTILITY SOLUTIONS	22693	HUBBELL MANUFACTURING OKC INC	3444	OKLAHOMA	6801 S SUNNYLANE RD	OKLAHOMA CITY	OK	73135	35.4004	-97.44165	Operating	0.001	0.206	0.17	0.027	0.001	3.32	3.4	0	Min
4376	TMOBILE CENTRAL LLC	22700	OK01542A	4812	OKLAHOMA	16718 N PENNSYLVANIA AVE	OKLAHOMA CITY	OK	73012	35.6414	-97.5474	Not Yet Built	0	0	0	0	0	0	0	0	Min
4670	TIERPOINT LLC	22750	TIERPOINT LLC OKLAHOMA CITY	7374	OKLAHOMA	4121 PERIMETER PL	OKLAHOMA CITY	OK	73112	35.5142	-97.59661	Operating	0	2.742	1.479	0.108	0.105	0	0.19	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	22789	JONES 10087699	4812	OKLAHOMA	15819 BRITTON RD	JONES	OK	73049	35.5689	-97.25086	Operating	0	0.013	0.003	0	0	0	0.001	0	Min
4677	MEDLINE INDUSTRIES LP	22820	MEDLINE INDUSTRIES LP	5047	OKLAHOMA	8001 SW 47TH ST	OKLAHOMA CITY	OK	73179	35.4193	-97.6556	Operating	0	0.026	0	0	0	0	0.001	0	Min
4351	CITIZEN ENERGY III LLC	22838	DARROW TRUST 7 PAD	1311	CANADIAN	0.55 MI NE OF N FRISCO RD/SW119TH ST	MUSTANG	OK	73064	35.3547	-97.76963	Operating	0	10.669	17.512	0.292	0.292	0	42.911	0	Syn-Min
4684	SPRINT SPECTRUM LP DBA T MOBILE	22893	SPRINT OKLAHOMA CITY SWITCH	4812	OKLAHOMA	1717 W MAIN ST	OKLAHOMA CITY	OK	73106	35.4685	-97.5422	Not Yet Built	0	0	0	0	0	0	0	0	Min
4351	CITIZEN ENERGY III LLC	22899	SWITZER 5 8 11 PAD	1311	CANADIAN	0.2 MI E OF S CEMETERY RD/W RENO AVE	YUKON	OK	73099	35.4637	-97.75673	Operating	0	5.661	7.147	0.059	0.059	0	20.421	0	Syn-Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	22914	10010311 WESTBURY	4812	CANADIAN	11220 SW 29TH ST	OKLAHOMA CITY	OK	73064	35.435	-97.71958	Operating	0	0.006	0.001	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	22995	10003857 LAKESHORE	4812	OKLAHOMA	6526 N MERIDIAN AVE	OKLAHOMA CITY	OK	73116	35.5383	-97.60028	Operating	0	0.007	0.001	0	0	0	0.001	0	Min
4351	CITIZEN ENERGY III LLC	23039	NOWLIN 16 21 PAD	1311	CANADIAN	12301 SW 134TH ST	mustang	OK	73064	35.3344	-97.73181	Operating	0	7.992	14.466	0.241	0.241	0	46.892	0	Syn-Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	23052	10000536 39TH STREET	4812	OKLAHOMA	4201 NW 39TH EXPRESSWAY	OKLAHOMA CITY	OK	73112	35.5131	-97.59531	Operating	0	0.001	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	23053	10009454 WINDSOR HILLS	4812	OKLAHOMA	4437 NW 23	OKLAHOMA CITY	OK	73107	35.4938	-97.60058	Not Yet Built	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	23062	10152619 SOUTHEAST 44TH AND SUNNYLANE	4812	OKLAHOMA	5502 SE 44TH ST	OKLAHOMA CITY	OK	73135	35.4194	-97.42469	Not Yet Built	0	0	0	0	0	0	0	0	Min
3835	OG AND E - TD AND TS	23090	METRO SERVICE CENTER TOWER	4911	OKLAHOMA	0.4 MI NE OF E WILSHIRE RD/N EASTERN AVE	OKLAHOMA CITY	OK	73111	35.557	-97.47507	Operating	0	0.009	0.487	0	0	0	0	0	Min
4708	OECFIBER	23125	MOORE	4911	CLEVELAND	4228 SE 104TH STREET	OKLAHOMA CITY	OK	73160	35.3629	-97.44173	Operating	0	0	0.008	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	23165	OKL01558 15228823	4812	CANADIAN	9520 SW 15TH ST UNIT POAGE	OKLAHOMA CITY	OK	73128	35.4473	-97.68398	Not Yet Built	0	0	0	0	0	0	0	0	Min
4708	OECFIBER	23201	SARA ROAD	4911	CANADIAN	0.1 MI SW OF HWY 4/SW 89TH STREET	OKLAHOMA CITY	OK	73064	35.3762	-97.71068	Operating	0	0	0.001	0	0	0	0	0	Min
4708	OECFIBER	23202	WEST MOORE	4911	CLEVELAND	14201 S PENNSYLVANIA	OKLAHOMA CITY	OK	73170	35.3265	-97.54838	Operating	0	0	0.004	0	0	0	0	0	Min

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4699	FORMENTERA OPERATIONS	23209	WALDEN PAD	1311	OKLAHOMA	0.2MI SW ROCKWELL/WILSHIRE BLVD JN	BETHANY	OK	73008	35.5499	-97.64002	Operating	0	3.914	16.246	0	0	0	61.584	0	Min
4708	OECFIBER	23213	BAILEY	4911	CLEVELAND	14901 S MACARTHUR BLVD	OKLAHOMA CITY	OK	73173	35.3198	-97.6186	Operating	0	0	0.001	0	0	0	0	0	Min
3835	OG AND E - TD AND TS	23215	WEST SERVICE CENTER	4911	CANADIAN	9500 NW 10TH ST	OKLAHOMA CITY	OK	73127	35.4783	-97.6838	Operating	0	0	0.005	0	0	0	0	0	Min
4293	CAMINO NATURAL RESOURCES LLC	23247	SPIRO MOUNDS 1006 PRODUCTION FACILITY	1311	CANADIAN	0.23 MI NE OF GREGORY RD/SW 89TH	MUSTANG	OK	73064	35.3782	-97.82704	Operating	0.001	0.389	0.707	0.031	0	0	1.731	0	Min
3690	DUININCK INC	23272	CONCRETE PLANT CP007	1611	OKLAHOMA	TINKER AFB	OKLAHOMA CITY	OK	73145	35.4212	-97.39154	Operating	0.06	0.311	0.161	1.746	0	0	0.072	0	Min
4210	PALOMA OPERATING INC	23321	ROSEANNADANNA 34 12N 6W PAD	1311	CANADIAN	0.5 MI W OF E OKC RENO AVE/GREGORY RD	YUKON	OK	73099	35.4652	-97.82105	Operating	0	0.661	2.202	0	0	0	1.815	0	Syn-Min
4376	TMOBILE CENTRAL LLC	23328	OK02182A NSD	4812	CANADIAN	10620 NW EXPWY	OKLAHOMA CITY	OK	73099	35.5893	-97.7102	Not Yet Built	0	0	0	0	0	0	0	0	Min
4351	CITIZEN ENERGY III LLC	23385	WALTHER 1 12 1 36 PAD	1311	CANADIAN	0.5 MI SE RICHLAND RD/SW 89TH ST	MUSTANG	OK	73064	35.3709	-97.78558	Not Yet Built	0	0	0	0	0	0	0	0	Syn-Min
4730	FRANKLIN ELECTRIC	23388	OKC DISTRIBUTION CENTER	4225	OKLAHOMA	301 N MACARTHUR	OKLAHOMA CITY	OK	73127	35.4699	-97.62008	Operating	0	0	0	0	0	0	0	0	Min
3454	NEW CINGULAR WIRELESS PCS LLC DBA AT AND T MOBILITY	23494	44TH AND CEMETERY 15010701	4812	CANADIAN	3702 S CEMETERY RD	YUKON	OK	73099	35.4275	-97.75209	Operating	0	0.002	0	0	0	0	0	0	Min

Appendix AB: PDES Permits within Oklahoma City Jurisdiction

Permit Name	NPDES ID	Outfall ID	Location Address	City	Zip Code	Permit Issued	Permit Effective	Permit Expiration	Permit Status	Facility Type	Permit Type	Program Type	County	Major / Minor	Outfall Latitude	Outfall Longitude	Monitoring
7725 Reno #1	OK0045187	001A	7725 W RENO, STE 398	OKLAHOMA CITY	73127					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.4645	-97.644667	Effluent
7725 Reno #1	OK0045187	002A	7725 W RENO, STE 398	OKLAHOMA CITY	73127					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.464306	-97.652306	Effluent
7725 Reno #1	OK0045187	003A	7725 W RENO, STE 398	OKLAHOMA CITY	73127					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.464556	-97.648444	Effluent
7725 Reno #1	OK0045187	004A	7725 W RENO, STE 398	OKLAHOMA CITY	73127					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.464556	-97.65025	Effluent
Acme Brick Co-OKC Plant	OK0038253	001A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.60375	-97.507139	Effluent
Acme Brick Co-OKC Plant	OK0038253	002A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.600361	-97.508306	Effluent
Belger Cartage Service, Inc.	OKG750009	001A	3837 W. RENO	OKLAHOMA CITY	73107					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.465611	-97.586639	Effluent
Coreslab Structures, Inc.	OKG110065	007A	817 SE 55TH ST	OKLAHOMA CITY	73129					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.411667	-97.499056	Effluent
Coreslab Structures (Oklahoma), Inc	OK0034908	007A	817 S.E. 55TH STREET	OKLAHOMA CITY	73143					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.411389	-97.498611	Effluent
DOLESE BROS. CO.-13TH ST BATCH	OKG110014	001A	11 NW 13TH STREET	OKLAHOMA CITY	73101					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.48	-97.520833	Effluent
DOLESE BROS. CO.- OKC SUNNY LN	OK0042561	001A	7000 S. SUNNYLANE RD	OKLAHOMA CITY	00000					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.398917	-97.436972	Effluent
DOLESE BROS. CO.- SOUTH HIGH	OKG110010	001A	4800 SOUTH HIGH STREET	OKLAHOMA CITY	73129					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.416667	-97.495833	Effluent
DOLESE BROS. CO.- SW 29TH ST	OKG110009	001A	4100 SOUTHWEST 29TH STREET	OKLAHOMA CITY	73119					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.431556	-97.590083	Effluent
DOLESE BROS. CO.- YUKON BATCH	OKG110011	001A	10700 NORTHWEST 10TH STREET	YUKON	73099					Privately Owned Facility		Industrial Wastewater	Canadian		35.478611	-97.706667	Effluent
Dolese Brothers Co.-Sunny Lane	OKG110060	001A	7100 S. SUNNY LANE RD.	OKLAHOMA CITY	73135					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.403611	-97.435556	Effluent

Georgia Gulf Chemicals & Vinyl	OK0001031	002A	5200 SE 59TH ST	OKLAHOMA CITY	73135					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.403611	-97.43	Effluent
Georgia Gulf Chemicals & Vinyl	OK0001031	003A	5200 SE 59TH ST	OKLAHOMA CITY	73135					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.402778	-97.428333	Effluent
Holliday Outt MHP	OK0039136	001A	604 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127					Privately Owned Facility		Municipal Wastewater	Oklahoma		35.473028	-97.669361	Effluent
Lakeview Terrace MHP	OK0040525	001A	1204 N LAKEVIEW DRIVE	OKLAHOMA CITY	73127					Municipal or Water District		Municipal Wastewater	Oklahoma		35.482972	-97.668361	Effluent
LUCENT TECHNOLOGIES, INC.	OK0020974	005A	7725 WEST RENO AVENUE	OKLAHOMA CITY	73126					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.463333	-97.643611	Effluent
Moore, City of	OK0027391	001A	4000 S. I35 SERVICE RD.	MOORE	73160					Municipal or Water District		Municipal Wastewater	Cleveland		35.290878	-97.551577	Effluent
Mustang Improvement Authority	OK0026816	001A	224 W. SH 152	MUSTANG	73064					Municipal or Water District		Municipal Wastewater	Canadian		35.325278	-97.732194	Effluent
OG&E-Mustang	OK0000477	001A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.471472	-97.673278	Effluent
OG&E-Mustang	OK0000477	002A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.465833	-97.672778	Effluent
OG&E- REDBUD GENERATING STATION	OK0100552	001A	20922 NORTH TRIPLE X ROAD	LUTHER	73054					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.660278	-97.221111	Effluent
OK City, City of-North Canadian	OK0036978	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102					Municipal or Water District		Municipal Wastewater	Oklahoma		35.597056	-97.312889	Effluent
OK City, City of-South Canadian	OK0038385	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102					Municipal or Water District		Municipal Wastewater	Oklahoma		35.307639	-97.559306	Effluent
Quad Graphics, Inc.	OK0044989	001A	6801 SUNNYLANE ROAD	OKLAHOMA CITY	73135					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.401639	-97.442944	Effluent
Riversport Rapids	OK0100579	001A	800 SE RIVERSPORT DR	CITY OF OKLAHOMA CITY	73129					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.459111	-97.495194	Effluent
Spencer, City of	OK0022535	001A	6401 N DOUGLAS BLVD	SPENCER	73084					Municipal or Water District		Municipal Wastewater	Oklahoma		35.538028	-97.373222	Effluent
TH Agriculture & Nutrition, L.L.C.	OK0045608	001A	3909 S. MERIDIAN AVE.	OKLAHOMA CITY	73119					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.424444	-97.605	Effluent
TINKER AFB-SW TREATMENT PLANT	OK0044067	001A	OC-AL/EM,7701 ARNOLD ST STE 204	TINKER AFB	73145					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.415	-97.41	Effluent

TINKER AFB-SW TREATMENT PLANT	OK0044067	002A	OC-AL/EM,7701 ARNOLD ST STE 204	TINKER AFB	73145					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.434444	-97.418889	Effluent
Tinker Air Force Base	OK0035203	001A	7447 SE 74TH ST	OKLAHOMA CITY	73135					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.396472	-97.404139	Effluent
USAF-Tinker AFB-OKC	OK0000809	005A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.42625	-97.371944	Effluent
USAF-Tinker AFB-OKC	OK0000809	006A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.426861	-97.371611	Effluent
USAF-Tinker AFB-OKC	OK0000809	007A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.425694	-97.407611	Effluent
USAF-Tinker AFB-OKC	OK0000809	009A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.413333	-97.399056	Effluent
USAF-Tinker AFB-OKC	OK0000809	010A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.426833	-97.371444	Effluent
USAF-Tinker AFB-OKC	OK0000809	013A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.405611	-97.400611	Effluent
USAF-Tinker AFB-OKC	OK0000809	014A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.417333	-97.368361	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	001A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.390306	-97.618444	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	002A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.3925	-97.615861	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	003A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.392806	-97.61575	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	004A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169					Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma		35.393111	-97.6155	Effluent
Vicinity Energy Oklahoma City, Inc.	OK0002453	001A	ONE NORTH E.K. GAYLORD BLVD.	OKLAHOMA CITY	73102					Privately Owned Facility		Industrial Wastewater	Oklahoma		35.452944	-97.523556	Effluent
7725 Reno #1	OK0045187	001A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2013-03-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.4645	-97.644667	Effluent
7725 Reno #1	OK0045187	002A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2013-03-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.464306	-97.652306	Effluent
7725 Reno #1	OK0045187	003A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2013-03-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.464556	-97.648444	Effluent

7725 Reno #1	OK0045187	004A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2013-03-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.464556	-97.65025	Effluent
Acme Brick Co-OKC Plant	OK0038253	001A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114	2016-10-06	2016-11-01	2016-11-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.60375	-97.507139	Effluent
Acme Brick Co-OKC Plant	OK0038253	002A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114	2016-10-06	2016-11-01	2016-11-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.600361	-97.508306	Effluent
Belger Cartage Service, Inc.	OKG750009	001A	3837 W. RENO	OKLAHOMA CITY	73107	2018-01-03	2018-02-01	2018-02-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.465611	-97.586639	Effluent
Coreslab Structures, Inc.	OKG110065	007A	817 SE 55TH ST	OKLAHOMA CITY	73129	2019-03-08	2019-04-01	2019-04-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.411667	-97.499056	Effluent
Coreslab Structures (Oklahoma), Inc	OK0034908	007A	817 S.E. 55TH STREET	OKLAHOMA CITY	73143	2004-06-18	2004-07-01	2004-07-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.411389	-97.498611	Effluent
DOLESE BROS. CO.-13TH ST BATCH	OKG110014	001A	11 NW 13TH STREET	OKLAHOMA CITY	73101	2003-09-10	2003-10-01	2003-10-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.48	-97.520833	Effluent
DOLESE BROS. CO.- OKC SUNNY LN	OK0042561	001A	7000 S. SUNNYLANE RD	OKLAHOMA CITY	00000	2001-06-21	2001-06-25	2001-06-25		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.398917	-97.436972	Effluent
DOLESE BROS. CO.- SOUTH HIGH	OKG110010	001A	4800 SOUTH HIGH STREET	OKLAHOMA CITY	73129	2003-09-25	2003-09-25	2003-09-25		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.416667	-97.495833	Effluent
DOLESE BROS. CO.- SW 29TH ST	OKG110009	001A	4100 SOUTHWEST 29TH STREET	OKLAHOMA CITY	73119	2003-10-06	2003-11-01	2003-11-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.431556	-97.590083	Effluent
DOLESE BROS. CO.- YUKON BATCH	OKG110011	001A	10700 NORTHWEST 10TH STREET	YUKON	73099	2003-10-13	2003-11-01	2003-11-01		Privately Owned Facility		Industrial Wastewater	Canadian	Minor	35.478611	-97.706667	Effluent
Dolese Brothers Co.-Sunny Lane	OKG110060	001A	7100 S. SUNNY LANE RD.	OKLAHOMA CITY	73135	2006-01-25	2006-01-27	2006-01-27		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.403611	-97.435556	Effluent
Georgia Gulf Chemicals & Vinyl	OK0001031	002A	5200 SE 59TH ST	OKLAHOMA CITY	73135	2007-06-22	2007-07-01	2007-07-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.403611	-97.43	Effluent
Georgia Gulf Chemicals & Vinyl	OK0001031	003A	5200 SE 59TH ST	OKLAHOMA CITY	73135	2007-06-22	2007-07-01	2007-07-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.402778	-97.428333	Effluent
Holliday Outt MHP	OK0039136	001A	604 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2020-06-01	2020-07-01	2020-07-01		Privately Owned Facility		Municipal Wastewater	Oklahoma	Minor	35.473028	-97.669361	Effluent
Lakeview Terrace MHP	OK0040525	001A	1204 N LAKEVIEW DRIVE	OKLAHOMA CITY	73127	2010-02-17	2010-03-01	2010-03-01		Municipal or Water District		Municipal Wastewater	Oklahoma	Minor	35.482972	-97.668361	Effluent
LUCENT TECHNOLOGIES, INC.	OK0020974	005A	7725 WEST RENO AVENUE	OKLAHOMA CITY	73126	2007-08-01	2007-08-01	2007-08-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.463333	-97.643611	Effluent

Moore, City of	OK0027391	001A	4000 S. I35 SERVICE RD.	MOORE	73160	2016-02-24	2016-03-01	2016-03-01		Municipal or Water District		Municipal Wastewater	Cleveland	Major	35.290878	-97.551577	Effluent
Mustang Improvement Authority	OK0026816	001A	224 W. SH 152	MUSTANG	73064	2018-02-22	2018-03-01	2018-03-01		Municipal or Water District		Municipal Wastewater	Canadian	Major	35.325278	-97.732194	Effluent
OG&E-Mustang	OK0000477	001A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2017-11-14	2017-12-01	2017-12-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.471472	-97.673278	Effluent
OG&E-Mustang	OK0000477	002A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2017-11-14	2017-12-01	2017-12-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.465833	-97.672778	Effluent
OG&E- REDBUD GENERATING STATION	OK0100552	001A	20922 NORTH TRIPLE X ROAD	LUTHER	73054	2018-10-04	2019-01-01	2019-01-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Major	35.660278	-97.221111	Effluent
OK City, City of-North Canadian	OK0036978	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2016-10-03	2016-12-01	2016-12-01		Municipal or Water District		Municipal Wastewater	Oklahoma	Major	35.597056	-97.312889	Effluent
OK City, City of-South Canadian	OK0038385	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2009-04-30	2009-05-01	2009-05-01		Municipal or Water District		Municipal Wastewater	Oklahoma	Major	35.307639	-97.559306	Effluent
Quad Graphics, Inc.	OK0044989	001A	6801 SUNNYLANE ROAD	OKLAHOMA CITY	73135	2004-06-01	2004-07-01	2004-07-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.401639	-97.442944	Effluent
Riversport Rapids	OK0100579	001A	800 SE RIVERSPORT DR	CITY OF OKLAHOMA CITY	73129	2017-01-01	2017-01-01	2017-01-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.459111	-97.495194	Effluent
Spencer, City of	OK0022535	001A	6401 N DOUGLAS BLVD	SPENCER	73084	2016-06-27	2016-07-01	2016-07-01		Municipal or Water District		Municipal Wastewater	Oklahoma	Minor	35.538028	-97.373222	Effluent
TH Agriculture & Nutrition, L.L.C.	OK0045608	001A	3909 S. MERIDIAN AVE.	OKLAHOMA CITY	73119	2009-11-13	2009-12-01	2009-12-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.424444	-97.605	Effluent
TINKER AFB-SW TREATMENT PLANT	OK0044067	001A	OC-AL/EM,7701 ARNOLD ST STE 204	TINKER AFB	73145	2000-12-20	2000-12-21	2000-12-21		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.415	-97.41	Effluent
TINKER AFB-SW TREATMENT PLANT	OK0044067	002A	OC-AL/EM,7701 ARNOLD ST STE 204	TINKER AFB	73145	2000-12-20	2000-12-21	2000-12-21		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.434444	-97.418889	Effluent
Tinker Air Force Base	OK0035203	001A	7447 SE 74TH ST	OKLAHOMA CITY	73135	2009-02-24	2009-03-01	2009-03-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.396472	-97.404139	Effluent
USAF-Tinker AFB-OKC	OK0000809	005A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2020-05-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.42625	-97.371944	Effluent
USAF-Tinker AFB-OKC	OK0000809	006A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2020-05-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.426861	-97.371611	Effluent
USAF-Tinker AFB-OKC	OK0000809	007A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2020-05-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.425694	-97.407611	Effluent

USAF-Tinker AFB-OKC	OK0000809	009A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2020-05-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.413333	-97.399056	Effluent
USAF-Tinker AFB-OKC	OK0000809	010A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2020-05-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.426833	-97.371444	Effluent
USAF-Tinker AFB-OKC	OK0000809	013A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2020-05-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.405611	-97.400611	Effluent
USAF-Tinker AFB-OKC	OK0000809	014A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2020-05-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.417333	-97.368361	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	001A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2017-06-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.390306	-97.618444	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	002A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2017-06-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.3925	-97.615861	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	003A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2017-06-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.392806	-97.61575	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	004A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2017-06-01		Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.393111	-97.6155	Effluent
Vicinity Energy Oklahoma City, Inc.	OK0002453	001A	ONE NORTH E.K. GAYLORD BLVD.	OKLAHOMA CITY	73102	2018-05-22	2018-09-01	2018-09-01		Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.452944	-97.523556	Effluent
Holliday Outt MHP	OK0039136	001A	604 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2020-06-01	2020-07-01	2025-06-30	001A	Privately Owned Facility		Municipal Wastewater	Oklahoma	Minor	35.473028	-97.669361	Effluent
Moore, City of	OK0027391	001A	4000 S. I35 SERVICE RD.	MOORE	73160	2016-02-24	2016-03-01	2021-02-28	001A	Municipal or Water District		Municipal Wastewater	Cleveland	Major	35.290878	-97.551577	Effluent
Mustang Improvement Authority	OK0026816	001A	224 W. SH 152	MUSTANG	73064	2018-02-22	2018-03-01	2023-02-28	001A	Municipal or Water District		Municipal Wastewater	Canadian	Major	35.325278	-97.732194	Effluent
OK City, City of-North Canadian	OK0036978	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2016-10-03	2016-12-01	2021-11-30	001A	Municipal or Water District		Municipal Wastewater	Oklahoma	Major	35.597056	-97.312889	Effluent
Acme Brick Co-OKC Plant	OK0038253	001A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114	2011-07-08	2011-08-01	2016-07-31	Admin Continued	Privately Owned Facility	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.60375	-97.507139	Effluent
Acme Brick Co-OKC Plant	OK0038253	002A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114	2011-07-08	2011-08-01	2016-07-31	Admin Continued	Privately Owned Facility	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.600361	-97.508306	Effluent
Holliday Outt MHP	OK0039136	001A	604 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2008-12-10	2009-01-01	2013-12-31	Admin Continued	Privately Owned Facility	NPDES Individual Permit	Municipal Wastewater	Oklahoma	Minor	35.473031	-97.669354	Effluent
Moore, City of	OK0027391	001A	4000 S. I35 SERVICE RD.	MOORE	73160	2010-04-09	2010-05-01	2015-04-30	Admin Continued	Municipal or Water District	NPDES Individual Permit	Municipal Wastewater	Cleveland	Major	35.290878	-97.551577	Effluent
Mustang Improvement Authority	OK0026816	001A	224 W. SH 152	MUSTANG	73064	2010-09-27	2010-10-01	2015-09-30	Admin Continued	Municipal or Water District	NPDES Individual Permit	Municipal Wastewater	Canadian	Major	33.924917	-95.508306	Effluent

OK City, City of-North Canadian	OK0036978	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2010-12-01	2011-01-01	2015-12-31	Admin Continued	Municipal or Water District	NPDES Individual Permit	Municipal Wastewater	Oklahoma	Major	35.597056	-97.312889	Effluent
OK City, City of-South Canadian	OK0038385	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2009-04-30	2009-05-01	2014-04-30	Admin Continued	Municipal or Water District	NPDES Individual Permit	Municipal Wastewater	Oklahoma	Major	35.307639	-97.559306	Effluent
Spencer, City of	OK0022535	001A	6401 N DOUGLAS BLVD	SPENCER	73084	2011-05-24	2011-06-01	2016-05-31	Admin Continued	Municipal or Water District	NPDES Individual Permit	Municipal Wastewater	Oklahoma	Minor	35.538039	-97.373539	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	001A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2011-05-10	2011-06-01	2016-05-31	Admin Continued	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.390306	-97.618444	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	002A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2011-05-10	2011-06-01	2016-05-31	Admin Continued	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.3925	-97.615861	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	003A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2011-05-10	2011-06-01	2016-05-31	Admin Continued	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.392806	-97.61575	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	004A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2011-05-10	2011-06-01	2016-05-31	Admin Continued	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.393111	-97.6155	Effluent
OK City, City of-South Canadian	OK0038385	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2009-04-30	2009-05-01	2014-04-30	Admin Continued	Municipal or Water District	Municipal or Water District	Municipal Wastewater	Oklahoma	Major	35.307639	-97.559306	Effluent
OK City, City of-South Canadian	OK0038385	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2009-04-30	2009-05-01	2014-04-30	Admin Continued	Municipal or Water District	Municipal Wastewater	Municipal Wastewater	Oklahoma	Major	35.307639	-97.559306	Effluent
OK City, City of-South Canadian	OK0038385	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2009-04-30	2009-05-01	2014-04-30	Admin Continued	Municipal or Water District		Municipal Wastewater	Oklahoma	Major	35.307639	-97.559306	Effluent
Belger Cartage Service, Inc.	OKG750009	001A	3837 W. RENO	OKLAHOMA CITY	73107	2013-09-20	2013-10-01	2018-09-30	Effective	Privately Owned Facility	General Permit Covered Facility	Industrial Wastewater	Oklahoma	Minor	35.465611	-97.586639	Effluent
Coreslab Structures, Inc.	OKG110065	007A	817 SE 55TH ST	OKLAHOMA CITY	73129	2014-02-12	2014-03-01	2019-02-28	Effective	Privately Owned Facility	General Permit Covered Facility	Industrial Wastewater	Oklahoma	Minor	35.411667	-97.499056	Effluent
OG&E-Mustang	OK0000477	001A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2012-04-23	2012-06-01	2017-05-31	Effective	Privately Owned Facility	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.471472	-97.673278	Effluent
USAF-Tinker AFB-OKC	OK0000809	005A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2012-08-31	2012-09-01	2017-08-31	Effective	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Major	35.42625	-97.371944	Effluent
USAF-Tinker AFB-OKC	OK0000809	006A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2012-08-31	2012-09-01	2017-08-31	Effective	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Major	35.426861	-97.371611	Effluent
USAF-Tinker AFB-OKC	OK0000809	007A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2012-08-31	2012-09-01	2017-08-31	Effective	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Major	35.425694	-97.407611	Effluent
USAF-Tinker AFB-OKC	OK0000809	008A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2012-08-31	2012-09-01	2017-08-31	Effective	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Major	35.427417	-97.380083	Effluent

USAF-Tinker AFB-OKC	OK0000809	009A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2012-08-31	2012-09-01	2017-08-31	Effective	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Major	35.413333	-97.399056	Effluent
USAF-Tinker AFB-OKC	OK0000809	010A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2012-08-31	2012-09-01	2017-08-31	Effective	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Major	35.426833	-97.371444	Effluent
USAF-Tinker AFB-OKC	OK0000809	013A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2012-08-31	2012-09-01	2017-08-31	Effective	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Major	35.405611	-97.400611	Effluent
USAF-Tinker AFB-OKC	OK0000809	014A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2012-08-31	2012-09-01	2017-08-31	Effective	Federal Facility (U.S. Government)	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Major	35.417333	-97.368361	Effluent
Veolia Energy Oklahoma City, Inc.	OK0002453	001A	ONE NORTH E.K. GAYLORD BLVD.	OKLAHOMA CITY	73102	2013-08-08	2013-09-01	2018-08-31	Effective	Privately Owned Facility	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.452944	-97.523556	Effluent
Holliday Outt MHP	OK0039136	001A	604 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2020-06-01	2020-07-01	2025-06-30	Effective	Privately Owned Facility	Privately Owned Facility	Municipal Wastewater	Oklahoma	Minor	35.473028	-97.669361	Effluent
Moore, City of	OK0027391	001A	4000 S. I35 SERVICE RD.	MOORE	73160	2016-02-24	2016-03-01	2021-02-28	Effective	Municipal or Water District	Municipal or Water District	Municipal Wastewater	Cleveland	Major	35.290878	-97.551577	Effluent
Mustang Improvement Authority	OK0026816	001A	224 W. SH 152	MUSTANG	73064	2018-02-22	2018-03-01	2023-02-28	Effective	Municipal or Water District	Municipal or Water District	Municipal Wastewater	Canadian	Major	35.325278	-97.732194	Effluent
OK City, City of-North Canadian	OK0036978	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2016-10-03	2016-12-01	2021-11-30	Effective	Municipal or Water District	Municipal or Water District	Municipal Wastewater	Oklahoma	Major	35.597056	-97.312889	Effluent
Spencer, City of	OK0022535	001A	6401 N DOUGLAS BLVD	SPENCER	73084	2016-06-27	2016-07-01	2021-06-30	Effective	Municipal or Water District	Municipal or Water District	Municipal Wastewater	Oklahoma	Minor	35.538028	-97.373222	Effluent
Acme Brick Co-OKC Plant	OK0038253	001A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114	2016-10-06	2016-11-01	2021-10-31	Effective	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.60375	-97.507139	Effluent
Acme Brick Co-OKC Plant	OK0038253	002A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114	2016-10-06	2016-11-01	2021-10-31	Effective	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.600361	-97.508306	Effluent
Belger Cartage Service, Inc.	OKG750009	001A	3837 W. RENO	OKLAHOMA CITY	73107	2018-01-03	2018-02-01	2023-01-01	Effective	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.465611	-97.586639	Effluent
Coreslab Structures, Inc.	OKG110065	007A	817 SE 55TH ST	OKLAHOMA CITY	73129	2019-03-08	2019-04-01	2024-02-29	Effective	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.411667	-97.499056	Effluent
Holliday Outt MHP	OK0039136	001A	604 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2020-06-01	2020-07-01	2025-06-30	Effective	Privately Owned Facility	Municipal Wastewater	Municipal Wastewater	Oklahoma	Minor	35.473028	-97.669361	Effluent
Moore, City of	OK0027391	001A	4000 S. I35 SERVICE RD.	MOORE	73160	2016-02-24	2016-03-01	2021-02-28	Effective	Municipal or Water District	Municipal Wastewater	Municipal Wastewater	Cleveland	Major	35.290878	-97.551577	Effluent
Mustang Improvement Authority	OK0026816	001A	224 W. SH 152	MUSTANG	73064	2018-02-22	2018-03-01	2023-02-28	Effective	Municipal or Water District	Municipal Wastewater	Municipal Wastewater	Canadian	Major	35.325278	-97.732194	Effluent
OG&E-Mustang	OK0000477	001A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2017-11-14	2017-12-01	2022-11-30	Effective	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.471472	-97.673278	Effluent

OG&E-Mustang	OK0000477	002A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2017-11-14	2017-12-01	2022-11-30	Effective	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.465833	-97.672778	Effluent
OG&E- REDBUD GENERATING STATION	OK0100552	001A	20922 NORTH TRIPLE X ROAD	LUTHER	73054	2018-10-04	2019-01-01	2023-12-31	Effective	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Major	35.660278	-97.221111	Effluent
OK City, City of-North Canadian	OK0036978	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2016-10-03	2016-12-01	2021-11-30	Effective	Municipal or Water District	Municipal Wastewater	Municipal Wastewater	Oklahoma	Major	35.597056	-97.312889	Effluent
Riversport Rapids	OK0100579	001A	800 SE RIVERSPORT DR	CITY OF OKLAHOMA CITY	73129	2017-01-01	2017-01-01	2020-12-31	Effective	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.459111	-97.495194	Effluent
Spencer, City of	OK0022535	001A	6401 N DOUGLAS BLVD	SPENCER	73084	2016-06-27	2016-07-01	2021-06-30	Effective	Municipal or Water District	Municipal Wastewater	Municipal Wastewater	Oklahoma	Minor	35.538028	-97.373222	Effluent
USAF-Tinker AFB-OKC	OK0000809	005A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Major	35.42625	-97.371944	Effluent
USAF-Tinker AFB-OKC	OK0000809	006A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Major	35.426861	-97.371611	Effluent
USAF-Tinker AFB-OKC	OK0000809	007A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Major	35.425694	-97.407611	Effluent
USAF-Tinker AFB-OKC	OK0000809	009A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Major	35.413333	-97.399056	Effluent
USAF-Tinker AFB-OKC	OK0000809	010A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Major	35.426833	-97.371444	Effluent
USAF-Tinker AFB-OKC	OK0000809	013A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Major	35.405611	-97.400611	Effluent
USAF-Tinker AFB-OKC	OK0000809	014A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Major	35.417333	-97.368361	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	001A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2022-05-31	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.390306	-97.618444	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	002A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2022-05-31	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.3925	-97.615861	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	003A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2022-05-31	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.392806	-97.61575	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	004A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2022-05-31	Effective	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.393111	-97.6155	Effluent
Vicinity Energy Oklahoma City, Inc.	OK0002453	001A	ONE NORTH E.K. GAYLORD BLVD.	OKLAHOMA CITY	73102	2018-05-22	2018-09-01	2023-08-31	Effective	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.452944	-97.523556	Effluent

Holliday Outt MHP	OK0039136	001A	604 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2020-06-01	2020-07-01	2025-06-30	Effective	Privately Owned Facility		Municipal Wastewater	Oklahoma	Minor	35.473028	-97.669361	Effluent
Moore, City of	OK0027391	001A	4000 S. I35 SERVICE RD.	MOORE	73160	2016-02-24	2016-03-01	2021-02-28	Effective	Municipal or Water District		Municipal Wastewater	Cleveland	Major	35.290878	-97.551577	Effluent
Mustang Improvement Authority	OK0026816	001A	224 W. SH 152	MUSTANG	73064	2018-02-22	2018-03-01	2023-02-28	Effective	Municipal or Water District		Municipal Wastewater	Canadian	Major	35.325278	-97.732194	Effluent
OK City, City of-North Canadian	OK0036978	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2016-10-03	2016-12-01	2021-11-30	Effective	Municipal or Water District		Municipal Wastewater	Oklahoma	Major	35.597056	-97.312889	Effluent
Acme Brick Co-OKC Plant	OK0038253	001A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114	2016-10-06	2016-11-01	2021-10-31	Effective	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.60375	-97.507139	Effluent
Acme Brick Co-OKC Plant	OK0038253	002A	500 E MEMORIAL ROAD	OKLAHOMA CITY	73114	2016-10-06	2016-11-01	2021-10-31	Effective	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.600361	-97.508306	Effluent
Belger Cartage Service, Inc.	OKG750009	001A	3837 W. RENO	OKLAHOMA CITY	73107	2018-01-03	2018-02-01	2023-01-01	Effective	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.465611	-97.586639	Effluent
Coreslab Structures, Inc.	OKG110065	007A	817 SE 55TH ST	OKLAHOMA CITY	73129	2019-03-08	2019-04-01	2024-02-29	Effective	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.411667	-97.499056	Effluent
Holliday Outt MHP	OK0039136	001A	604 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2020-06-01	2020-07-01	2025-06-30	Effective	Privately Owned Facility		Municipal Wastewater	Oklahoma	Minor	35.473028	-97.669361	Effluent
Moore, City of	OK0027391	001A	4000 S. I35 SERVICE RD.	MOORE	73160	2016-02-24	2016-03-01	2021-02-28	Effective	Municipal or Water District		Municipal Wastewater	Cleveland	Major	35.290878	-97.551577	Effluent
Mustang Improvement Authority	OK0026816	001A	224 W. SH 152	MUSTANG	73064	2018-02-22	2018-03-01	2023-02-28	Effective	Municipal or Water District		Municipal Wastewater	Canadian	Major	35.325278	-97.732194	Effluent
OG&E-Mustang	OK0000477	001A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2017-11-14	2017-12-01	2022-11-30	Effective	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.471472	-97.673278	Effluent
OG&E-Mustang	OK0000477	002A	501 MUSTANG PLANT ROAD	OKLAHOMA CITY	73127	2017-11-14	2017-12-01	2022-11-30	Effective	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.465833	-97.672778	Effluent
OG&E- REDBUD GENERATING STATION	OK0100552	001A	20922 NORTH TRIPLE X ROAD	LUTHER	73054	2018-10-04	2019-01-01	2023-12-31	Effective	Privately Owned Facility		Industrial Wastewater	Oklahoma	Major	35.660278	-97.221111	Effluent
OK City, City of-North Canadian	OK0036978	001A	420 W. MAIN, SUITE 500	OKLAHOMA CITY	73102	2016-10-03	2016-12-01	2021-11-30	Effective	Municipal or Water District		Municipal Wastewater	Oklahoma	Major	35.597056	-97.312889	Effluent
Riversport Rapids	OK0100579	001A	800 SE RIVERSPORT DR	CITY OF OKLAHOMA CITY	73129	2017-01-01	2017-01-01	2020-12-31	Effective	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.459111	-97.495194	Effluent
Spencer, City of	OK0022535	001A	6401 N DOUGLAS BLVD	SPENCER	73084	2016-06-27	2016-07-01	2021-06-30	Effective	Municipal or Water District		Municipal Wastewater	Oklahoma	Minor	35.538028	-97.373222	Effluent
USAF-Tinker AFB-OKC	OK0000809	005A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.42625	-97.371944	Effluent

USAF-Tinker AFB-OKC	OK0000809	006A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.426861	-97.371611	Effluent
USAF-Tinker AFB-OKC	OK0000809	007A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.425694	-97.407611	Effluent
USAF-Tinker AFB-OKC	OK0000809	009A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.413333	-97.399056	Effluent
USAF-Tinker AFB-OKC	OK0000809	010A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.426833	-97.371444	Effluent
USAF-Tinker AFB-OKC	OK0000809	013A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.405611	-97.400611	Effluent
USAF-Tinker AFB-OKC	OK0000809	014A	7701 ARNOLD ST, STE 204	OKLAHOMA CITY	73145	2020-04-03	2020-05-01	2025-04-30	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Major	35.417333	-97.368361	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	001A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2022-05-31	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.390306	-97.618444	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	002A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2022-05-31	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.3925	-97.615861	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	003A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2022-05-31	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.392806	-97.61575	Effluent
US FAA Mike Monroney Aero. Center	OK0043931	004A	6500 S. MCARTHUR BLVD	OKLAHOMA CITY	73169	2017-05-12	2017-06-01	2022-05-31	Effective	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.393111	-97.6155	Effluent
Vicinity Energy Oklahoma City, Inc.	OK0002453	001A	ONE NORTH E.K. GAYLORD BLVD.	OKLAHOMA CITY	73102	2018-05-22	2018-09-01	2023-08-31	Effective	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.452944	-97.523556	Effluent
7725 Reno #1	OK0045187	001A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.4645	-97.644667	Effluent
7725 Reno #1	OK0045187	002A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.464306	-97.652306	Effluent
7725 Reno #1	OK0045187	003A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.464556	-97.648444	Effluent
7725 Reno #1	OK0045187	004A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility	NPDES Individual Permit	Industrial Wastewater	Oklahoma	Minor	35.464556	-97.65025	Effluent
Lakeview Terrace MHP	OK0040525	001A	1204 N LAKEVIEW DRIVE	OKLAHOMA CITY	73127	2010-02-17	2010-03-01	2015-02-28	Terminated	Municipal or Water District	Municipal or Water District	Municipal Wastewater	Oklahoma	Minor	35.482972	-97.668361	Effluent
7725 Reno #1	OK0045187	001A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.4645	-97.644667	Effluent
7725 Reno #1	OK0045187	002A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.464306	-97.652306	Effluent

7725 Reno #1	OK0045187	003A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.464556	-97.648444	Effluent
7725 Reno #1	OK0045187	004A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.464556	-97.65025	Effluent
Coreslab Structures (Oklahoma), Inc	OK0034908	007A	817 S.E. 55TH STREET	OKLAHOMA CITY	73143	2004-06-18	2004-07-01	2009-06-30	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.411389	-97.498611	Effluent
DOLESE BROS. CO.-13TH ST BATCH	OKG110014	001A	11 NW 13TH STREET	OKLAHOMA CITY	73101	2003-09-10	2003-10-01	2008-06-22	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.48	-97.520833	Effluent
DOLESE BROS. CO.- OKC SUNNY LN	OK0042561	001A	7000 S. SUNNYLANE RD	OKLAHOMA CITY	00000	2001-06-21	2001-06-25	2006-06-24	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.398917	-97.436972	Effluent
DOLESE BROS. CO.- SOUTH HIGH	OKG110010	001A	4800 SOUTH HIGH STREET	OKLAHOMA CITY	73129	2003-09-25	2003-09-25	2008-06-22	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.416667	-97.495833	Effluent
DOLESE BROS. CO.- SW 29TH ST	OKG110009	001A	4100 SOUTHWEST 29TH STREET	OKLAHOMA CITY	73119	2003-10-06	2003-11-01	2008-06-22	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.431556	-97.590083	Effluent
DOLESE BROS. CO.- YUKON BATCH	OKG110011	001A	10700 NORTHWEST 10TH STREET	YUKON	73099	2003-10-13	2003-11-01	2008-06-22	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Canadian	Minor	35.478611	-97.706667	Effluent
Dolese Brothers Co.-Sunny Lane	OKG110060	001A	7100 S. SUNNY LANE RD.	OKLAHOMA CITY	73135	2006-01-25	2006-01-27	2008-06-22	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.403611	-97.435556	Effluent
Georgia Gulf Chemicals & Vinyl	OK0001031	002A	5200 SE 59TH ST	OKLAHOMA CITY	73135	2007-06-22	2007-07-01	2012-06-30	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.403611	-97.43	Effluent
Georgia Gulf Chemicals & Vinyl	OK0001031	003A	5200 SE 59TH ST	OKLAHOMA CITY	73135	2007-06-22	2007-07-01	2012-06-30	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.402778	-97.428333	Effluent
Lakeview Terrace MHP	OK0040525	001A	1204 N LAKEVIEW DRIVE	OKLAHOMA CITY	73127	2010-02-17	2010-03-01	2015-02-28	Terminated	Municipal or Water District	Municipal Wastewater	Municipal Wastewater	Oklahoma	Minor	35.482972	-97.668361	Effluent
LUCENT TECHNOLOGIES, INC.	OK0020974	005A	7725 WEST RENO AVENUE	OKLAHOMA CITY	73126	2007-08-01	2007-08-01	2012-07-31	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.463333	-97.643611	Effluent
Quad Graphics, Inc.	OK0044989	001A	6801 SUNNYLANE ROAD	OKLAHOMA CITY	73135	2004-06-01	2004-07-01	2009-06-30	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.401639	-97.442944	Effluent
TH Agriculture & Nutrition, L.L.C.	OK0045608	001A	3909 S. MERIDIAN AVE.	OKLAHOMA CITY	73119	2009-11-13	2009-12-01	2014-11-30	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.424444	-97.605	Effluent
TINKER AFB-SW TREATMENT PLANT	OK0044067	001A	OC-AL/EM,7701 ARNOLD ST STE 204	TINKER AFB	73145	2000-12-20	2000-12-21	2005-12-20	Terminated	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.415	-97.41	Effluent
TINKER AFB-SW TREATMENT PLANT	OK0044067	002A	OC-AL/EM,7701 ARNOLD ST STE 204	TINKER AFB	73145	2000-12-20	2000-12-21	2005-12-20	Terminated	Federal Facility (U.S. Government)	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.434444	-97.418889	Effluent

Tinker Air Force Base	OK0035203	001A	7447 SE 74TH ST	OKLAHOMA CITY	73135	2009-02-24	2009-03-01	2014-02-28	Terminated	Privately Owned Facility	Industrial Wastewater	Industrial Wastewater	Oklahoma	Minor	35.396472	-97.404139	Effluent
7725 Reno #1	OK0045187	001A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.4645	-97.644667	Effluent
7725 Reno #1	OK0045187	002A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.464306	-97.652306	Effluent
7725 Reno #1	OK0045187	003A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.464556	-97.648444	Effluent
7725 Reno #1	OK0045187	004A	7725 W RENO, STE 398	OKLAHOMA CITY	73127	2013-02-27	2013-03-01	2018-02-28	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.464556	-97.65025	Effluent
Coreslab Structures (Oklahoma), Inc	OK0034908	007A	817 S.E. 55TH STREET	OKLAHOMA CITY	73143	2004-06-18	2004-07-01	2009-06-30	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.411389	-97.498611	Effluent
DOLESE BROS. CO.-13TH ST BATCH	OKG110014	001A	11 NW 13TH STREET	OKLAHOMA CITY	73101	2003-09-10	2003-10-01	2008-06-22	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.48	-97.520833	Effluent
DOLESE BROS. CO.- OKC SUNNY LN	OK0042561	001A	7000 S. SUNNYLANE RD	OKLAHOMA CITY	00000	2001-06-21	2001-06-25	2006-06-24	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.398917	-97.436972	Effluent
DOLESE BROS. CO.- SOUTH HIGH	OKG110010	001A	4800 SOUTH HIGH STREET	OKLAHOMA CITY	73129	2003-09-25	2003-09-25	2008-06-22	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.416667	-97.495833	Effluent
DOLESE BROS. CO.- SW 29TH ST	OKG110009	001A	4100 SOUTHWEST 29TH STREET	OKLAHOMA CITY	73119	2003-10-06	2003-11-01	2008-06-22	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.431556	-97.590083	Effluent
DOLESE BROS. CO.- YUKON BATCH	OKG110011	001A	10700 NORTHWEST 10TH STREET	YUKON	73099	2003-10-13	2003-11-01	2008-06-22	Terminated	Privately Owned Facility		Industrial Wastewater	Canadian	Minor	35.478611	-97.706667	Effluent
Dolese Brothers Co.-Sunny Lane	OKG110060	001A	7100 S. SUNNY LANE RD.	OKLAHOMA CITY	73135	2006-01-25	2006-01-27	2008-06-22	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.403611	-97.435556	Effluent
Georgia Gulf Chemicals & Vinyl	OK0001031	002A	5200 SE 59TH ST	OKLAHOMA CITY	73135	2007-06-22	2007-07-01	2012-06-30	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.403611	-97.43	Effluent
Georgia Gulf Chemicals & Vinyl	OK0001031	003A	5200 SE 59TH ST	OKLAHOMA CITY	73135	2007-06-22	2007-07-01	2012-06-30	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.402778	-97.428333	Effluent
Lakeview Terrace MHP	OK0040525	001A	1204 N LAKEVIEW DRIVE	OKLAHOMA CITY	73127	2010-02-17	2010-03-01	2015-02-28	Terminated	Municipal or Water District		Municipal Wastewater	Oklahoma	Minor	35.482972	-97.668361	Effluent
LUCENT TECHNOLOGIES, INC.	OK0020974	005A	7725 WEST RENO AVENUE	OKLAHOMA CITY	73126	2007-08-01	2007-08-01	2012-07-31	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.463333	-97.643611	Effluent
Quad Graphics, Inc.	OK0044989	001A	6801 SUNNYLANE ROAD	OKLAHOMA CITY	73135	2004-06-01	2004-07-01	2009-06-30	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.401639	-97.442944	Effluent

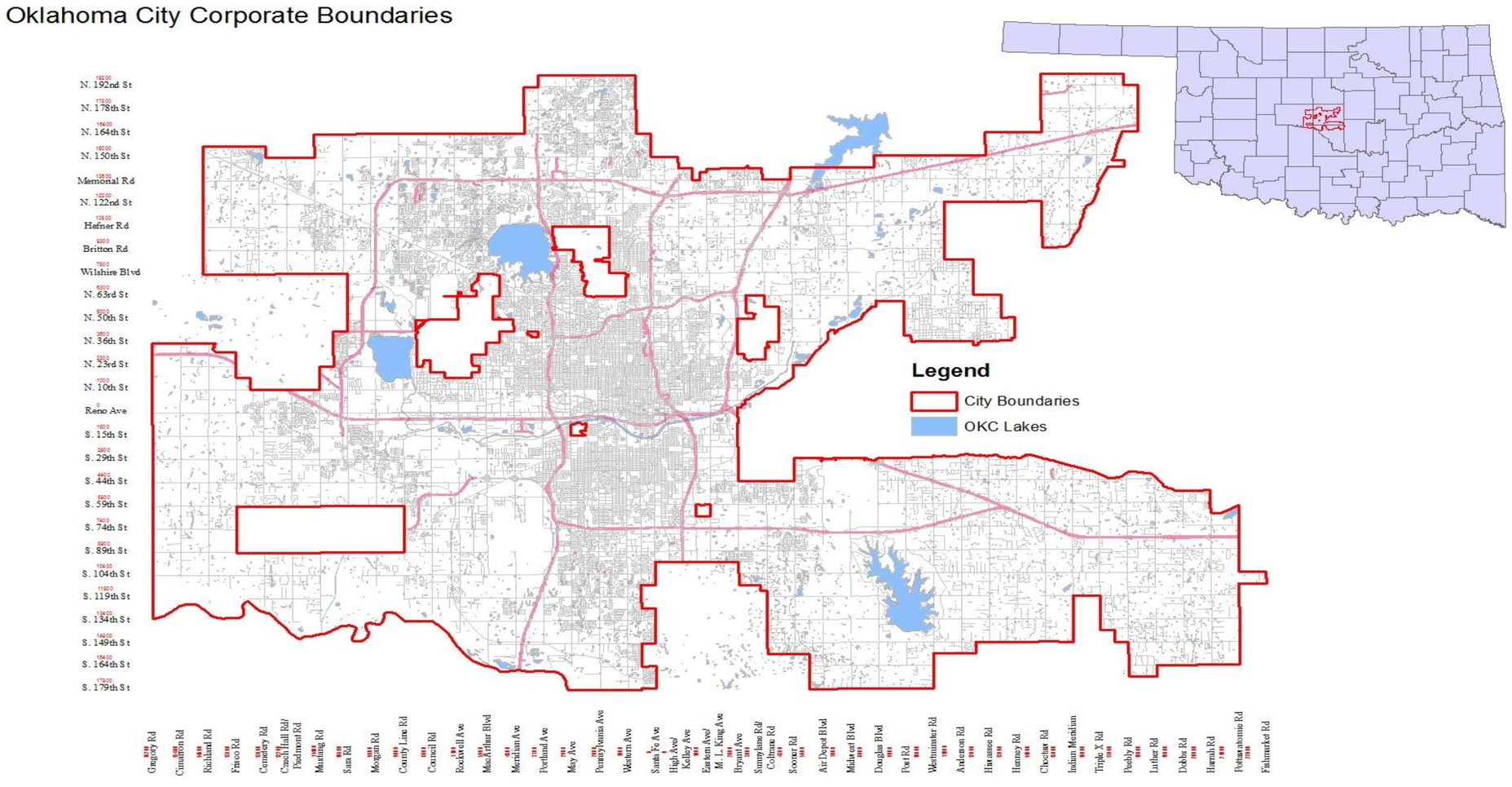
TH Agriculture & Nutrition, L.L.C.	OK0045608	001A	3909 S. MERIDIAN AVE.	OKLAHOMA CITY	73119	2009-11-13	2009-12-01	2014-11-30	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.424444	-97.605	Effluent
TINKER AFB-SW TREATMENT PLANT	OK0044067	001A	OC-AL/EM,7701 ARNOLD ST STE 204	TINKER AFB	73145	2000-12-20	2000-12-21	2005-12-20	Terminated	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.415	-97.41	Effluent
TINKER AFB-SW TREATMENT PLANT	OK0044067	002A	OC-AL/EM,7701 ARNOLD ST STE 204	TINKER AFB	73145	2000-12-20	2000-12-21	2005-12-20	Terminated	Federal Facility (U.S. Government)		Industrial Wastewater	Oklahoma	Minor	35.434444	-97.418889	Effluent
Tinker Air Force Base	OK0035203	001A	7447 SE 74TH ST	OKLAHOMA CITY	73135	2009-02-24	2009-03-01	2014-02-28	Terminated	Privately Owned Facility		Industrial Wastewater	Oklahoma	Minor	35.396472	-97.404139	Effluent

Appendix AC: Total Retention Facilities within the Oklahoma City Jurisdictional Boundaries

FACILITY	Facility No.	Industrial ID	Authorization No.	County	Facility Type	Facility Address	City	Zip Code	Phone	Owner Name	Owner Address	Owner City	Type	LATITUDE	LONGITUDE
ADVANCED AIR SYSTEMS		55004890		OKLAHOMA	TOTAL RETENTION	8009 S. I-35 SERVICE ROAD	OKLAHOMA CITY	73149	(405) 632-583	INTEGRATED RAILWAY PRODUCTS IN	1806 WEST GARRETT	HUGO	INDUSTRIAL	35.386955942	-97.496465094
AMERICAN SANITATION		55004830		OKLAHOMA	TOTAL RETENTION	1801 SOUTH SANTA FE	OKLAHOMA CITY	731091418	(405) 235-860	AMERICAN SANITATION, INC	1801 SOUTH SANTA FE	OKLAHOMA CITY	INDUSTRIAL	35.446971031	-97.512585944
APPLEWOOD MHP WWT	S20579			OKLAHOMA	LAGOON (TOTAL RETENTION)	2844 NE 23 LOT 6 A	OKC	73121		APPLEWOOD MHP/PIERRE BARNABA	3421 ROYAL WOOD CIRCLE	DEL CITY	MUNICIPAL	35.490272669	-97.455804364
BAPTIST CHILDREN'S HOME - OKC	S20655			OKLAHOMA	LAGOON (TOTAL RETENTION)	16301 S WESTERN	OKLAHOMA CITY	73170		South Baptist Conference	16301 S Western	OKLAHOMA CITY	MUNICIPAL	35.306988853	-97.534764592
BARNES SCHOOL	S20813			OKLAHOMA	LAGOON (TOTAL RETENTION)	10551 SE 29TH	Oklahoma City	73105		BARNES SCHOOL	10551 SE 29TH	OKLAHOMA CITY	MUNICIPAL	35.408382467	-97.341067133
BLUE BEACON TRUCK WASH NORTH		55004990		OKLAHOMA	TOTAL RETENTION	7720 N. BRYANT RD.	OKLAHOMA CITY	73111	(405) 478-083	BLUE BEACON TRUCK WASH SOUTH	PO BOX 15185	OKLAHOMA CITY	INDUSTRIAL	35.549702	-97.459193
BLUE BEACON TRUCK WASH SOUTH		55004980		OKLAHOMA	TOTAL RETENTION	20 SOUTH MARTIN LUTHER KING	OKLAHOMA CITY	73117	(405) 235-107	BLUE BEACON TRUCK WASH SOUTH	PO BOX 15185	OKLAHOMA CITY	INDUSTRIAL	35.466746	-97.476864
CEDAR LAKE TP	S20652			OKLAHOMA	LAGOON (TOTAL RETENTION)	500 SW 134	OKC	73170		CEDAR LAKE TP	500 SW 134	OKLAHOMA CITY	MUNICIPAL	35.332508244	-97.525323011
DEWEY RWSD # 2 WWT	S20644			DEWEY	LAGOON (TOTAL RETENTION)	PO BOX 45	CAMARGO	73835		DEWEY RWSD #2	PO BOX 45	CAMARGO	MUNICIPAL	35.474439325	-97.516599022
EASTSIDE CAR WASH OF SPIRO		40000940		LEFLORE	TOTAL RETENTION	ROUTE 4 BOX 205	SPIRO	74959	(918) 962-589	EASTSIDE CAR WASH	ROUTE 4 BOX 205	SPIRO	INDUSTRIAL	35.507803	-97.488852
GODDARD CONCRETE (BASE PLANT)		55004960		OKLAHOMA	TOTAL RETENTION	3101 N.E. 10TH STREET	OKLAHOMA CITY	73117	(405) 424-438	GODDARD CONCRETE COMPANY, INC.	3101 N.E. 10TH STREET	OKLAHOMA CITY	INDUSTRIAL	35.478653	-97.457236
HILLSIDE #1 MHP WWT	S20596			OKLAHOMA	LAGOON (TOTAL RETENTION)	9628 SE 29TH	OKLAHOMA CITY	73130		ATTENTION: MARY JO STEWART	7744 EVANSTON AVE	TULSA, OKLAHOMA	MUNICIPAL	35.431543303	-97.358894933
IMPERIAL OAKS MHP	S20814			OKLAHOMA	LAGOON (TOTAL RETENTION)					IMPERIAL OAKS MHP	10001 DONNA CIRCLE	OKLAHOMA CITY	MUNICIPAL	35.426930603	-97.351455467
JANUARY ENVIRONMENTAL SVCS INC		55004930		OKLAHOMA	TOTAL RETENTION	2701 SOUTH PROSPECT	OKLAHOMA CITY	73129	(405) 670-203	JANUARY ENVIRONMENTAL SVCS.INC	2701 SOUTH PROSPECT	OKLAHOMA CITY	INDUSTRIAL	35.438148181	-97.487973711

FACILITY	Facility No.	Industrial ID	Authorization No.	County	Facility Type	Facility Address	City	Zip Code	Phone	Owner Name	Owner Address	Owner City	Type	LATITUDE	LONGITUDE
JANUARY ENVIRONMENTAL SVCS INC		55004930		OKLAHOMA	TOTAL RETENTION	2701 SOUTH PROSPECT	OKLAHOMA CITY	73129	(405) 670-203	JANUARY ENVIRONMENTAL SVCS.INC	2701 SOUTH PROSPECT	OKLAHOMA CITY	INDUSTRIAL	35.438150578	-97.488015511
KOCO TV WWT	S20735			OKLAHOMA	LAGOON (TOTAL RETENTION)	1300 E Britton	OKC	73131		KOCO TV	1300 East BRITTON	OKLAHOMA CITY	MUNICIPAL	35.562780894	-97.488904258
LAKEVIEW LDGNG WWT	S20537			OKLAHOMA	LAGOON (TOTAL RETENTION)	PO BOX 848	BETHANY	73008		LAKEVIEW LODGING, ATTN: MARTHA FLINT	PO BOX 848	BETHANY	MUNICIPAL	35.514046125	-97.682939833
LUTHER WWT	S20707			OKLAHOMA	LAND APPLICATION			73054		Luther PWA	PO Box 56	Luther	MUNICIPAL	35.652234978	-97.209307322
METHENY CONCRETE EDMOND PLANT		55004300		OKLAHOMA	TOTAL RETENTION				(405) 947-556	METHENY CONCRETE PRODUCTS INC	PO BOX 270248	OKLAHOMA CITY	INDUSTRIAL	35.375433347	-97.484994414
METHENY CONCRETE EDMOND PLANT		55004300		OKLAHOMA	TOTAL RETENTION				(405) 947-556	METHENY CONCRETE PRODUCTS INC	PO BOX 270248	OKLAHOMA CITY	INDUSTRIAL	35.375160756	-97.484836706
MP READY MIX OKC WILSHIRE PLNT		55004700	OKG11T043	OKLAHOMA	TOTAL RETENTION	7716 W WILSHIRE BLVD	OKLAHOMA CITY	73132	(405) 721-799	M P READY MIX, INC.	PO BOX 850450	YUKON	INDUSTRIAL	35.54954565	-97.649149392
MP READY MIX OKC WILSHIRE PLNT		55004700	OKG11T043	OKLAHOMA	TOTAL RETENTION	7716 W WILSHIRE BLVD	OKLAHOMA CITY	73132	(405) 721-799	M P READY MIX, INC.	PO BOX 850450	YUKON	INDUSTRIAL	35.54948935	-97.649349694
PRO-AM	S20816			OKLAHOMA	LAGOON (TOTAL RETENTION)	ROUTE 2 BOX 544	CHOCTAW	73020		PRO AM	ROUTE 2 BOX 544	CHOCTAW	MUNICIPAL	35.390708511	-97.266745964
RAINBO SERVICES CO.		55004920		OKLAHOMA	TOTAL RETENTION	2640 S. HIGH	OKLAHOMA CITY	73129	(405) 677-535	HAULAWAY, INC.	2640 SOUTH HIGH	OKLAHOMA CITY	INDUSTRIAL	35.438316603	-97.494069183
SCHWARTZ SCHOOL	S20815			OKLAHOMA	LAGOON (TOTAL RETENTION)	12001 SE 104	OKC	73156		SCHWARTZ SCHOOL	12001 Southeast 104	OKLAHOMA CITY	MUNICIPAL	35.363576147	-97.315967856
SCHWARZ READY MIX - RIVER BOTT		09000500	OKG11T017	CANADIAN	TOTAL RETENTION	9001 WEST RENO	OKLAHOMA CITY	73128	(405) 354-206	SCHWARZ READY MIX CO.	PO BOX 850450	YUKON	INDUSTRIAL	35.464318	-97.671168
SOUTHWEST ELECTRIC COMPANY		55003020		OKLAHOMA	TOTAL RETENTION	6501 SE 74TH ST	OKLAHOMA CITY	73135	(405) 737-569	SOUTHWEST ELECTRIC COMPANY	PO BOX 82639	OKLAHOMA CITY	INDUSTRIAL	35.393880036	-97.411622772
TJ CAMPBELL CONSTRUCTION CO.-S		55004570		OKLAHOMA	TOTAL RETENTION	6900 SOUTH SUNNYLANE ROAD	OKLAHOMA CITY	73155	(405) 672-676	T.J. CAMPBELL CONSTRUCTION CO.	PO BOX 15129	OKLAHOMA CITY	INDUSTRIAL	35.399074792	-97.437839164
TJ CAMPBELL CONSTRUCTION CO.-S		55004570		OKLAHOMA	TOTAL RETENTION	6900 SOUTH SUNNYLANE ROAD	OKLAHOMA CITY	73155	(405) 672-676	T.J. CAMPBELL CONSTRUCTION CO.	PO BOX 15129	OKLAHOMA CITY	INDUSTRIAL	35.399173789	-97.437711461

Appendix AD: Oklahoma City Corporate Boundary Map



Appendix AE: Monthly Precipitation Totals (Averages and Annual Sums) from 2017-2023

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2017	1.57	3.12	2.60	6.19	1.10	0.11	1.31	7.13	3.71	6.05	0.07	0.68	33.64
2018	0.20	2.63	0.61	2.28	4.30	6.00	2.29	9.04	8.42	5.37	0.55	4.16	45.85
2019	1.81	0.73	2.70	6.16	12.49	6.94	0.06	7.24	2.21	3.29	1.04	0.67	45.34
2020	3.14	0.65	5.04	2.03	4.08	3.49	6.48	3.42	2.56	4.60	0.34	2.74	38.57
2021	1.62	0.68	1.50	3.19	5.65	7.37	2.09	3.54	0.46	4.96	0.36	0.19	31.61
2022	0.10	1.43	1.97	1.59	7.35	3.31	0.42	2.04	1.80	2.21	1.71	2.06	25.99
2023	0.86	1.52	2.97	3.48	6.37	3.25	8.58	0.77	2.32	4.05	1.37	1.76	37.30
Average	**1.33**	**1.54**	**2.48**	**3.56**	**5.91**	**4.35**	**3.03**	**4.74**	**3.07**	**4.36**	**0.78**	**1.75**	**36.90**

Appendix AF: Illicit Discharge Detection and Elimination (IDDE) Monitoring Standard Operating Procedure

City of Oklahoma City, Public Works Department, Storm Water Quality Division

STANDARD OPERATING PROCEDURE

DRY WEATHER FIELD SCREENING MONITORING SOP #16

APPROVED:

X

Section Supervisor

X

Assistant Stormwater Superintendent

X

Stormwater Superintendent

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1.0 PROCEDURAL SECTION

1.1 Scope and Applicability

- Illicit Discharge Detection and Elimination (IDDE), also known as Dry Weather, is a program required by Oklahoma City's MS4 Permit OKS000101. The Clean Water Act, Section 402(p)(3)(B)(ii), requires that permits for municipal separate storm sewers shall include a requirement to effectively prohibit problematic non-storm water discharges into storm sewers.
- Dry Weather is a screening program to detect illicit discharges into the municipal separate storm sewer system (MS4). The program occurs annually during the summer months. The sites scheduled to be visited vary by year, but the requirement to visit all sites at least once per five-year period must be met.
- The program is called Dry Weather because the site visits must occur during periods of <0.10" of rainfall. This is intended to make illicit discharges easier to detect, as no runoff from rainfall is expected to occur during screening.

1.2 Summary of Method

- The investigator(s) will be given site lists and maps of Dry Weather sites to visit. All of the sites must be visited, and the following must occur:
- If the site is dry, only site observations are performed, and no more visits to that site are required.
- If the site has water, site observations plus physical measurements and chemical testing will be performed. A second visit to the site, repeating the same site activities, must occur within 4 to 24 hours.
- If any of the parameters tested exceeds their follow-up level, an illicit discharge is assumed, and an investigation must occur. The intent of the investigation is to locate the source of the illicit discharge and then eliminate that discharge.
- All of the above actions will be fully documented.

1.3 Definitions

- ***Ambient water*** refers to the water being sampled at the site.
- ***Blank*** is DI water that is tested in the same manner as a sample.
- ***Calibration*** is resetting the measurement value of a meter to match a standard.
- ***Calibration check*** is taking a measurement and comparing it to a standard. A calibration check does not reset the meter's measurement values.
- ***Confined Space*** is an area that is not necessarily designed for people but is large enough for workers to enter and perform jobs. A confined space also has limited or restricted means for entry or exit and is not designed for continuous occupancy. Underground storm sewers fall into this category, as do outfalls.
- ***Control*** refers to sampled water to which no reagents are added. Can be used to help discern color changes in a tested sample by comparison of the sample and control.
- ***Deionized water (DI)*** is laboratory purified water that is used for rinsing and creating blanks.
- ***Dry Weather*** is a period of time in which <0.10" of rain has fallen.
- ***Illicit Discharge*** is any discharge to the MS4 that is not composed entirely of storm water, except discharges pursuant to any NPDES permit, or discharges resulting from firefighting activities.
- ***Personal Protective Equipment (PPE)*** is equipment or clothing that is worn to protect a worker from hazards.
- ***Reagent*** is a chemical used in testing.
- ***Replicate*** is a collection or measurement made at a slightly different time and/or location than the sample.
- ***Safety Data Sheet (SDS)*** is a document that provides detailed information about a chemical that a worker may use or be exposed to on the job.
- ***Split*** is a collected water sample that is divided to run tests separately on two different but technically identical samples.
- ***Stormwater*** is any rainwater run-off, surface run-off and drainage related to rain or storm events or snow melt.
    - ***Thalweg*** is the region of greatest flow in a cross-section of a stream.

1.4 Health and Safety Warnings

- The Dry Weather program has many hazards that can be mitigated or even eliminated by following proper procedures. The City Safety Manual and the Health and Safety Plan (HASP) cover many of these hazards.
  This section will be limited to hazards specific to this program and not necessarily covered elsewhere.
    - Test Reagents
        - The following list of chemicals is used in Dry Weather monitoring. This list is provided so that the reader can look up the applicable SDSs in the binder on the lab door. Technicians must read these SDSs and be familiar with the hazards and safety procedures associated with each chemical:

- Aminoantipyrene Reagent
- Ammonium Hydroxide Solution
- Copper Reagent
- Detergent Reagent Number 1
- Detergent Reagent Number 2
- Detergent Reagent Number 3
- DPD 4
- pH 7 Buffer
- pH 10 Buffer
- Potassium Ferricyanide Solution

- Personal Protective Equipment
  - The following lists the PPE that must be used during Dry Weather:
  - ***Nitrile gloves*** - must be worn when sampling water and performing chemical tests to protect the technician from hazards associated with both the reagents and the ambient water.
  - ***Safety glasses*** - must be worn when sampling water and performing chemical tests to protect the technician from hazards associated with the reagents, the ambient water and the site. Safety glasses must meet ANSI Z87 standard**.**
  - ***Safety vest*** - must be worn any time traffic is a hazard. Must be Class 3.
  - ***Steel-toe boots*** - must be worn to protect the wearer from hazards such as manhole covers.
  - ***Rubber boots or waders*** - may be worn when it is not possible to sample without entering the water.
- Traffic Hazards
  - This section provides a general overview of safety procedures in traffic. It is not possible to cover every conceivable situation, but there are some general rules that apply:
  - Truck strobes must be on whenever you are impeding traffic in any way.
  - Always wear a safety vest in traffic.
  - When working in traffic, always have a barrier of your truck and traffic cones between yourself and traffic.
  - Carefully assess traffic and determine which directions threats may come from so that the truck and traffic cones can be positioned accordingly. Keep in mind that drivers often do not follow the normal flow of traffic when confronted with a traffic blockage and will drive in unexpected areas.
  - When working in heavy traffic, it is important to reduce time of exposure to traffic. Collect a sample, estimate the flow, make site observations and then leave the site to run the tests in a lower-traffic location.
  - If a site is particularly hazardous, it can be worked at a time when there is less traffic, such as late night/early morning. Technicians should compile a list of these sites so that they may be worked during a specially scheduled event.
- Site Hazards
  - This section details some general hazards associated with many sites:
  - Never enter a confined space. (See the definition of a confined space in Section 1.2.1)
  - Obscuring vegetation can hide many hazards. If possible, avoid walking or driving anywhere that the ground is obscured by tall vegetation, and proceed cautiously when it cannot be avoided.
  - Insect and arachnid bites and stings and the diseases they can transmit are a hazard. Proper use of an insect repellent containing DEET, which is supplied to all technicians, can help reduce this risk.
  - Know what poison ivy looks like. Even if you believe you are not allergic, have the courtesy not to get the oils on yourself and transfer them to surfaces where it can affect others.
  - Removing manhole covers requires proper technique to avoid back injury. Hitting a jammed manhole cover with a sledgehammer can cause flying fragments of metal: wear safety glasses. A manhole cover is heavy and can cause serious injury to fingers, toes, etc., so do not put any part of your body where a manhole cover could conceivably fall or pinch.
  - There are other potential hazards, such as stray dogs, menacing environments, etc., that can often be dealt with by leaving and working the site at another time or with additional personnel.
- Reagent and Waste Hazards
  - Waste and some of the reagents used can off gas hazardous vapors, particularly at high temperatures. (Refer to the SDSs of the reagents listed in Section 1.3.1). For this reason, the following procedures should be followed:
  - Do not store or transport a waste container in the cab of the truck.
  - Leave headspace in the waste container to prevent a possible rupture due to vapor pressure.
  - If you must store reagents or the Dry Weather kit in the cab of the truck to prevent theft, make sure that all reagent containers are tightly capped. If you enter the truck and notice an odor, ventilate the cab, then find the source of

the vapor and rectify the problem. Preferably, reagents should be stored in a lockable compartment outside of the cab.
- Perform chemical tests in the open air and not inside the cab of the truck, even with the doors or windows open.
- Waste must go into a waste container and not on the ground.

1.5 Cautions

- Proper technique is essential to ensure accurate testing:
  - All sample collection devices and sample containers must be clean (see ***SOP #26, Decontamination Procedures***).
  - All sample collection devices and sample containers must be triple rinsed with ambient water before a water sample is taken.
  - Learn the order and amounts of reagent additions and do not deviate from the instructions.
  - Triple rinse everything that has come in contact with the sample with deionized water (DI) after testing. This ensures that you are back at step 1 for the next site.

1.6 Interferences

- Some general procedures to eliminate interferences are:
  - Samples should be collected in a well-mixed zone such as a riffle or thalweg if there is flow. This ensures a representative sample.
  - Sample containers and testing equipment must be triple rinsed with DI water between sites to eliminate cross-contamination.
  - Reagents must be checked for expiration and replaced if expired.
  - Highly colored or turbid water can affect any test which requires observation of a color change.
- Interferences specific to a test or procedure are listed below:
  - Total Chlorine: sunlight exposure, oxidized manganese, bromine, iodine, ozone, chlorine dioxide and hydrogen peroxide.
  - Phenols: phenol-decomposing bacteria, oxidizing agents, reducing agents, and high pH values.
  - Detergents: surfactants, including those released by decaying organic material.

1.7 Personnel Qualifications and Responsibilities

- Field personnel must be trained and evaluated on the use of equipment prior to collecting samples or data. Use of equipment is subject to approval by the Environmental Unit Supervisor. Training will be done through dry run exercises in the laboratory and field to familiarize field personnel with operation, collection, calibration and maintenance. Investigators must be familiar with the SOP document and manuals, when applicable. Additional training will be required for personnel performing follow-up investigations.

1.8 Equipment and Supplies

- The following list includes the equipment necessary to perform Dry Weather monitoring, excluding the PPE listed in Section 1.3.2:
  - Dry Weather kit with reagents (LaMotte Storm Drain Kit)
  - pH meter
  - pH buffers for calibrating pH meter (pH 7 and pH 10)
  - DI water
  - Sampling containers (HDPE beakers)
  - Drop cup (sampling container on a string for lowering to acquire a sample)
  - Waste container
  - Tape measure and/or measuring stick
  - Stopwatch
  - Pickaxe and/or lid puller
  - Sledgehammer
  - Flashlight or other means of illuminating underground storm drains (reflective devices)
  - Traffic cones (4 minimum)
  - Site map and list
  - Paperwork (Sampling Episode Sheet and Illicit Discharge Field Screening Program sheets)
  - Clipboard
  - Pencils

1.9 Procedures

- Technicians should read and become familiar with the instruction manual for the LaMotte Storm Water Kit. Supplementary information is provided below:
  - All test apparatus and containers should be triple rinsed with the sample before testing.
  - Triple rinse and fill test containers with the sample only as each test is performed. Do not prefill all test containers before starting any tests.
  - If the ambient water is colored or turbid enough to interfere with reading test results, fill an additional test container with ambient water as a control. Do not add reagent to this control. Then compare the control with the tested sample to see if a color change has occurred. Note that colored or turbid samples can interfere with the color comparator and prevent determining a concentration.
  - If a test requires time for a reaction or physical process to occur, perform other tests simultaneously while periodically checking the progress of the previous tests.
  - All test results should be entered on the Illicit Discharge Field Screening Program sheet.
  - If a test result is in question, run the test again to confirm the result.
  - Any sample water containing reagents should be disposed of in a waste container.
  - All test apparatus and containers should be triple rinsed with DI water after the tests are complete.

1) Task Preparation
   - Operation, maintenance and storage of the pH meter should follow the manufacturer's instructions.
   - All other equipment should be checked to make sure it is serviceable, and repaired or replaced as needed.
   - Make sure that paperwork, reagents, buffers and DI are stocked in sufficient quantities for the day's activities.
   - Consider keeping spares of rapidly consumed and easily lost or broken items in the truck. The intent is to stay out in the field performing Dry Weather and not waste time constantly traveling back to the office.
   - Activities should be planned around the need to revisit sites with water within 4 to 24 hours, while also keeping in mind the requirement for dry weather (<0.10" rain) during that time period. Consult weather forecasts to guide decision making.
   - Site maps should be used to plan as efficient a route as possible to monitor sites.
2) Instrument or Method Calibration and Standardization
   - Because of the variety of pH meters used for Dry Weather monitoring, a step-by-step procedure for pH meter calibration will not be given. The applicable user manual for each meter should be consulted during calibration. A 2-point calibration, (with pH 7 and pH 10 buffer), is required if the meter is capable.
   - Calibration must occur at the beginning of each sampling day. A calibration check is sufficient at the end of the day if the pH readings do not drift appreciably, however, calibration checks and/or calibrations during the day are warranted if the readings are drifting appreciably (>10% change). Record these calibrations and checks on the Sampling Episode Sheet.
3) Sampling
   a) Sample Collection
      - Sampling can only occur after at least 72 hours of dry weather (<0.10" rain). Check local rain gauges to confirm.
      - Samples must be collected from an area representative of the site. If there is flow, samples should be collected in a well-mixed zone such as a riffle or thalweg.
      - Samples must be taken with clean containers. These containers will have been previously cleaned in the lab with Alconox and triple rinsed with DI water (see ***SOP #26, Decontamination Procedures***). These containers will be reused throughout a day of sampling, and must be triple rinsed with DI water between sites.
      - The sampling container must be triple rinsed with ambient water before taking a sample. Do not drain the rinse water back into the waterbody being sampled.
      - When sampling, do not disturb bottom sediments or collect other solids unless unavoidable.
      - Some sites will have such shallow water that multiple dips will be needed to acquire enough sample to test. Make sure all containers used during this process have been triple rinsed with ambient water before taking the sample.

      1. Flow Measurement
         - Technicians are required to read and understand ***SOP #8, Flow Measurement, SSOM***, and ***SOP #25, Flow Measurement, Timed Volume***. For all sites where it is possible, one of these techniques should be used to measure flow.
         - Because of the restriction on confined space entry, it will not be possible to follow the techniques described in ***SOP #8*** or ***SOP #25*** at all sites. Measure as many variables as possible before resorting to estimation. Even when

estimating flow in an underground storm drain, estimate the width, depth and velocity separately and then perform the calculation instead of attempting to estimate the flow directly.

2. General Test Procedures
   - Technicians should read and become familiar with the instruction manual for the LaMotte Storm Water Kit. Supplementary information is provided below:
   - All test apparatus and containers should be triple rinsed with the sample before testing.
   - Triple rinse and fill test containers with the sample only as each test is performed. Do not prefill all test containers before starting any tests.
   - If the ambient water is colored or turbid enough to interfere with reading test results, fill an additional test container with ambient water as a control. Do not add reagent to this control. Then compare the control with the tested sample to see if a color change has occurred. Note that colored or turbid samples can interfere with the color comparator and prevent determining a concentration.
   - If a test requires time for a reaction or physical process to occur, perform other tests simultaneously while periodically checking the progress of the previous tests.
   - All test results should be entered on the Illicit Discharge Field Screening Program sheet.
   - If a test result is in question, run the test again to confirm the result.
   - Any sample water containing reagents should be disposed of in a waste container.
   - All test apparatus and containers should be triple rinsed with DI water after the tests are complete.
3. pH and Water Temperature
   - Because water temperature can change rapidly in a sample container, this test is usually performed first.
   - Due to the number of different types of meters in use, refer to the applicable instruction manual for the proper testing procedure.
   - Note that the measurements may be taken in-stream, in a sample container, or in a meter cap with reservoir, depending on site constraints and/or meter type.
   - If pH and water temperature measurements are made out-of-stream, record the readings as soon as possible after they stabilize.
4. Detergents
   - This test often needs time to settle out and may require subsequent additions of Detergent Reagent 3, thus it is usually performed early. This reaction is stable enough that it does not require an immediate reading of the results.
   - Fill the test bottle to the 65 mL line.
   - Add two (2) 1-gram scoops of Detergent Reagent 1.
   - Cap and agitate the bottle.
   - Add Detergent Reagent 2 to the 75 mL line.
   - Add one (1) 0.5 mL pipetteful of Detergent Reagent 3.
   - Cap and agitate the bottle.
   - Once the solution settles into layers, check to see if the top layer has a blue tint. The test is completed when this occurs.
   - If the top layer is not tinted blue, repeat steps 5, 6, 7 and 8 until the top layer has a blue tint, keeping track of the number of 0.5 mL Detergent Reagent 3 additions.
   - The following table converts the number of 0.5 mL Detergent Reagent 3 additions to mg/L detergents:

Drops	mg/L
1	<0.01
2	0.05
3	0.15
4	0.25
5	0.35
6	0.45
7	0.55
8	0.65
9	0.75
10	0.85
11	0.95

Drops	mg/L
12	1.05

5. Total Chlorine
   - Because sunlight interferes with this reaction, it is essential to read the results as soon as the DPD tablet has dissolved.
   - Fill the test tube to the 10 mL mark with sample water.
   - Drop in one (1) DPD 4 tablet.
   - Cap and invert the test tube once.
   - Sunlight can react with the DPD indicator during the reaction and cause a false positive, so shade the test tube from direct sunlight and read the result as soon as the tablet dissolves.
   - If the sample has a pink tint immediately after the tablet has dissolved, use the appropriate color comparator to assign a corresponding concentration.
   - If the sample remains the same color as before the reagent addition, it is a non-detect and recorded as "<0.2 mg/L".
6. Copper
   - This reaction provides an almost instantaneous result.
   - Fill the test tube to the 10 mL mark with sample water.
   - Add five (5) drops of Copper Reagent.
   - Cap and invert the test tube once.
   - If the sample acquires a yellow tint, use the appropriate color comparator to assign a corresponding concentration.
   - If the sample remains the same color as before the reagent addition, it is a non-detect and recorded as "<0.01 mg/L".
7. Phenols
   - This reaction is dependent on proper order of reagent addition and proper mixing. Read results only after thorough agitation of the bottle.
   - Fill the bottle to the 10 mL mark with sample water.
   - Add one (1) 0.1 gram scoop of Aminoantipyrene reagent.
   - Cap and agitate the bottle.
   - Add four (4) drops of Ammonium Hydroxide.
   - Add two (2) 1.0 mL pipettefuls of Potassium Ferricyanide.
   - Cap and agitate the bottle.
   - If the solution acquires a reddish tint, wait for completion of the color change. If the reddish tint fades, improper mixing has occurred. Agitate the bottle and read again. If the reddish tint intensifies, this is a positive result. Use the appropriate color comparator to assign a concentration.
   - If the sample maintains a yellow tint (similar to the color of Potassium Ferricyanide), it is a non-detect and recorded as "<0.5 mg/L".
8. Follow-up Investigations
   - The following table lists the parameter levels that require a follow-up investigation:

Category	Detect Limits	Immediate Response	Follow Up Response
pH		Below **6.0** or Above **10.5**	Below **6.5** or Above **9.0**
Detergents	<0.01	Greater than **0.85** mg/L (10 Drops)	Greater than **0.25** mg/L (4 Drops)
Chlorine	<0.2	Greater than **1.0** mg/L	Greater than **0.2** mg/L
Copper	<0.01	Any Detect	
Phenols	<0.5	Any Detect	
Color		Extremely unusual water **color**	Unusual water **color**
Turbidity		Extremely high **turbidity (opaque)**	High **turbidity**
Odor		Extremely unusual water **odor**	Unusual water **odor**
Other Pollutants		Any situation needing immediate attention	Anything unusual other than those listed

All responses should be investigated immediately, unless time is limited due to 2nd screening

At that time it would be appropriate to call another technician for support.

Issues like chlorine could be resolved by confirmation of water sprinklers in area watering the pavement.

- Follow-up investigations will generally be assigned by the Environmental Unit Supervisor. Any time a parameter exceeds a follow-up level, the investigator should consider consulting with the Environmental Unit Specialist or the Environmental Unit Supervisor to decide whether to begin an investigation immediately.

b) Sample Handling and Preservation
- Samples are tested in the field. Under some circumstances, typically during a pollution investigation, laboratory sample(s) may be collected. Always contact the Environmental Unit Supervisor prior to any sample collection for laboratory analysis. Preservation will vary depending on the constituents that are to be analyzed. It is beyond the scope of this section to review all preservation methods.

c) Sample Preparation and Analysis
- Contact the Environmental Unit Supervisor prior to any sample collection and associated preparation for laboratory analysis.

4) Troubleshooting
- Refer to the applicable instruction manual for the pH meter. If a pencil does not write, make sure you are using the correct end.

5) Data Acquisition, Calculation & Data Reduction Requirements
- Calculations for flow measurement are given in ***SOP #8*** and ***SOP #25.***

6) Computer Hardware and Software
- Not applicable.

1.10 Data and Records Management

- Field Notation of Data
  - All sites visited, meter and kit SWQ numbers, calibrations and calibration checks should be recorded on the Sampling Episode Sheet. All observations, measurements and test results should be recorded on the Illicit Discharge Field Screening Program sheet. Data should be recorded following procedures outlined in *SOP #50, Instructions for Recording Field Information*.
- Chain-of-Custody Procedure
  - All tests are performed in the field, thus no chain-of-custody form is required. If the Environmental Unit Supervisor approves sample collection for laboratory analysis (See Section 1.11), a Chain of Custody will be required.

2.0 QUALITY ASSURANCE (QA) AND QUALITY CONTROL (QC) SECTION

- Training
  - Training of field personnel will be done through dry run exercises in the laboratory and/or field to familiarize them with instrument/field testing kit operation, calibration and maintenance. Investigators must be familiar with the applicable SOPs, SDSs and instruction manuals.
- Maintenance
  - Maintenance of the electronic pH and water temperature meter should follow procedures outlined in the instruction manual for the individual meter.
  - Field kits will be cleaned prior to storage. Storage will be in a secured, temperature-controlled location.
  - All other equipment will be checked to make sure it is serviceable and repaired or replaced as needed.
- QC Procedures
  - QC will be performed at 10% of sites sampled. All required test results, measurements and observations will be recorded on separate Illicit Discharge Field Screening Program sheets for the blank, sample, split and replicate. A QC event requires:
  - Chemical testing: blank, sample, split and replicate.
  - pH and water temperature: sample, split and replicate.
  - Site observations and flow measurement: sample and replicate.

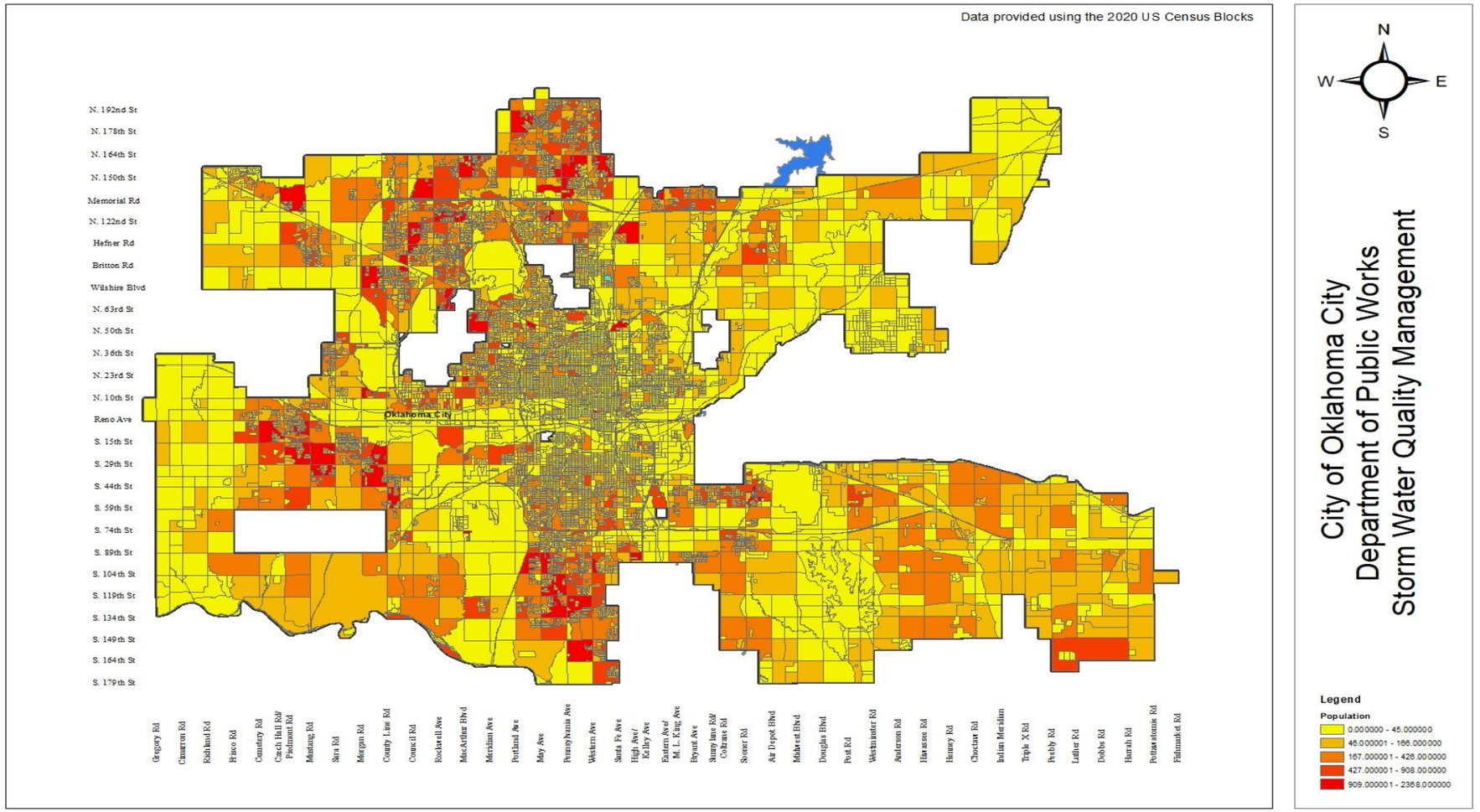
3.0 REFERENCES

- Oklahoma City Municipal Code, Article VI, §57-142.
- City of Oklahoma City Safety Manual
- City of Oklahoma City Health and Safety Plan

4.0 APPENDIX

- Not Applicable.

Appendix AG: OKC Population Densities Map (based on 2020 U.S. Census Block Data)



Appendix AH: OKC Parks and Recreational Spaces

Park Type	Name	Address	Acres
Neighborhood	Alice Harn Park	926 NW 15TH ST	2.16
Specialty	Bicentennial Park	500 COUCH DR	2.15
Metropolitan	Bluff Creek Park(East)	11620 N MERIDIAN AV	120.28
Metropolitan	Bluff Creek Park(West)	10941 N MERIDIAN AV	172.23
Neighborhood	Bob Akers Park	2408 SE 11TH ST	4.59
Neighborhood	Britton Park	1301 NW 96TH ST	1.38
Neighborhood	Brock Park	1601 SW 25TH ST	29.18
Neighborhood	Brookwood Park	9600 S SHARTEL AV	3.68
Neighborhood	Burton/Britton Park (North)	620 NW 99TH ST	0.50
Neighborhood	Burton/Britton Park (South)	9701 N SHARTEL AV	0.82
Neighborhood	Campbell Park	41 W PARK PLACE	1.34
Neighborhood	Creston Hills Park	2240 NE 18TH ST	4.60
Detention Pond	Crossroads Sports Complex	120 SE 89TH ST	48.88
Neighborhood	Crown Heights Park (East)	600 NW 38th ST	11.63
Neighborhood	Crown Heights Park (West)	3721 N SHARTEL AV	4.96
Specialty	Crystal Lake Recreation Area	6625 SW 15TH ST	145.17
Greenspace	Culbertson Park	1101 NE 13TH ST	0.36
Neighborhood	Denniston Park	2609 DENNISTON DR	3.03
Community	Diggs Park	2201 N COLTRANE RD	14.92
District	Dolese Youth Park	4701 NW 50TH ST	152.79
Neighborhood	Dolphin Wharton Park	301 NE 63RD ST	19.32
Neighborhood	Douglas Park	500 NW 47TH ST	8.42
District	Douglass Park	900 FREDERICK DOUGLASS AV	122.81
Greenspace	Draper Memorial Park	100 SW 3RD ST	1.93
Community	Draper Park (Capitol Hill)	3816 S ROBINSON AV	29.69
Neighborhood	E.B. Jeffrey Park	4432 NW 16TH ST	4.76
Neighborhood	E.W. Perry Park	1329 NE 48TH ST	2.17
Metropolitan	Earlywine Park	3033 SW 119TH ST	96.49
Neighborhood	Edgemere Park	3421 N HARVEY PKWY	15.48
Community	Edwards Park	1515 N BRYANT AV.	45.02
Neighborhood	Elm Grove Park	710 S PENNSYLVANIA AV	25.65
Greenspace	Florence Park	820 NW 15TH ST	0.31
Neighborhood	Flower Garden Park	4711 N CLASSEN BLVD	3.65
Specialty	Foster Center	614 NE 4TH ST	0.86
Neighborhood	Geraldine Park	3203 N GERALDINE AV	6.09
Neighborhood	Girvin Park	3400 NW 14TH ST	7.36
Neighborhood	Glen Ellyn Park	2300 N EVEREST AV	1.96
Neighborhood	Goodholm Park	2701 N ROBINSON AV	4.38
Neighborhood	Grant Corbin Park	4032 NW 13TH ST	2.20
Neighborhood	Greens Tot-Lot	13048 BURLINGAME AV	0.70
Neighborhood	Guilchester Park	2716 DORCHESTER DR	0.31
Neighborhood	Harden Park	2801 CRESTON DR	2.08
Neighborhood	Harlow Park	4800 NW 19TH ST	7.17
Neighborhood	Harvest Hills Park	8235 NW 104TH ST	4.36
Community	Hathaway Park	3730 S LINDSAY AV	12.86
Community	Hefner Park (NW Optimist)	3301 NW GRAND BL	42.95

Neighborhood	Highley Park	1934 NW 8TH ST	0.88
Neighborhood	Hiram Park	8200 HAPPY LN	9.11
Neighborhood	Hosea Vinyard Park	4201 S WALKER AV	7.69
Neighborhood	J.B. Black Park	2121 N COUNCIL RD	9.38
Neighborhood	Jack W Cornett Park	3001 N GROVE AV	5.36
Greenspace	Joe Louis Park	10810 NE 48TH ST	1.86
Neighborhood	John F. Kennedy Park	1824 NE 16TH ST	5.42
Specialty	Kerr Park	102 ROBERT S KERR AV	0.60
Specialty	Kitchen Lake Park	5501 SE 119th St	7.45
Neighborhood	L.D. Lacy Park	1114 NE 43RD ST	12.45
Greenspace	Lafayette Park	4601 S WALKER AV	1.65
Metropolitan	Lake Hefner (Children's Playground)	8901 LAKE HEFNER PKWY	1.88
Metropolitan	Lake Stanley Draper (Children's Playground Inclu	8255 SE 104TH ST	2.07
Neighborhood	Lakeshore Estates Park	8115 W LAKE HEFNER DR	0.92
Neighborhood	Lela Park	1801 LELA AV	6.93
Detention Pond	Lightning Creek Park	8100 S WESTERN AV	34.57
Metropolitan	Lincoln Park (North)	4712 N MARTIN LUTHER KING AV	8.30
Metropolitan	Lincoln Park (South)	3900 N MARTIN LUTHER KING AV	14.09
Neighborhood	Lippert Park	5501 S SHARTEL AV	3.68
Neighborhood	Lorraine Thomas	2350 S INDEPENDENCE	3.93
Neighborhood	Luther Dulaney Park	2931 NW 41ST ST	5.39
Neighborhood	Lytle Park	801 GREENVALE RD	4.06
Community	Macklanburg Park	2234 NW 117TH ST	9.18
Neighborhood	Mackleman Park	5501 MACKLEMAN DR	4.68
Neighborhood	Mark Twain Park	2402 NW 1ST ST	0.34
Nature	Martin Nature Park	4700 W MEMORIAL RD	137.24
Neighborhood	May Park	2817 SW 34TH ST	1.38
Neighborhood	Mayfair Park	4510 N MAYFAIR DR	1.82
Neighborhood	Mayview Park	3135 NW 73RD ST	1.34
Neighborhood	McCracken Park	424 SE 64TH ST	9.01
Community	McKinley Park	1300 N MCKINLEY AV	9.39
Neighborhood	McMechan Park	1601 MCMECHAN PY	1.03
Neighborhood	McNabb Park	901 NE 33RD ST	1.20
Neighborhood	Meadowbrook Park	3809 NW 10TH ST	1.79
Community	Melrose Park	7800 MELROSE LN	8.67
Community	Memorial Park	1152 NW 36TH ST	16.09
Neighborhood	Merrel Medley Park	11100 S PENNSYLVANIA AV	15.61
Neighborhood	Military Park	1200 NW 25TH ST	1.15
Community	Minnis Lakeview Park	12520 NE 36TH ST	19.75
Specialty	Myriad Gardens	301 W RENO AV	13.92
Greenspace	Nichols Court Park	1901 CULBERTSON DR	0.71
Neighborhood	North Highland Park	301 NW 81ST ST	1.99
Community	North Rotary Park	5708 N TULSA AV	20.34
Community	Northeast Center (North)	1300 NE 33RD ST	6.75
Neighborhood	Oliver Park	65 SW GRAND BLVD	16.47
Greenspace	O'Neil Park	725 NW 13TH ST	0.55
Metropolitan	Overholser	2402 E OVERHOLSER DR	6.56
Metropolitan	Overholser (PAVILION/SHELTER)	1600 E OVERHOLSER DR	19.27

Metropolitan	Overholser (SOCCER FIELDS)	1601 N COUNTY LINE	33.50
Neighborhood	Pat Murphy Park	4551 W HEFNER RD	12.31
Dog Park	Paw Park	7196 N GRAND BLVD	2.05
Neighborhood	Perle Mesta Park	1900 N SHARTEL AV	2.96
Neighborhood	Phillips Park	2808 N PROSPECT AV	3.91
Neighborhood	Pied Piper Park	1303 NW 100TH ST	6.67
Community	Pilot Center Park	1435 NW 2ND ST	1.08
Community	Pitts Park	1920 N KATE AV	11.24
Neighborhood	Progressive Community Park	4401 LENOX AV	11.63
Detention Pond	Quail Creek Detention Pond	11501 QUAIL CREEK RD	23.37
Neighborhood	Quail Creek Park	11130 QUAIL CREEK RD	10.16
Community	Red Andrews Park	720 NW 8TH ST	2.30
Neighborhood	Redlands Park	1425 NW 141ST	16.67
Neighborhood	Reed Park	1217 N MAY AV	2.24
Specialty	Regatta Park	701 S LINCOLN BLVD	27.99
Neighborhood	Rhode Island Park	6623 N RHODE ISLAND AV	0.43
Neighborhood	River Park	800 S AGNEW AV	31.82
Greenspace	Rockwell Park	618 N ROCKWELL AV	2.23
Neighborhood	Ross Park	2701 NW 62ND ST	8.96
Neighborhood	Rotary Playground Park	416 SE 15TH ST	8.17
Metropolitan	Route 66 Park	9901 NW 23RD ST	146.31
Neighborhood	Saint Clair Park	2212 N ST CLAIR AV	0.57
Community	Schilling Park	539 SE 25TH ST	22.68
Community	Sellers Park	8301 S VILLA AV	8.41
Neighborhood	Shallowbrook Park	4901 S SHALLOW BROOK DR	10.45
Neighborhood	Siler Park	2508 SW 95TH ST	3.89
Neighborhood	Smitty Park	2404 NW 44TH ST	5.63
Metropolitan	South Lakes Park	4302 SW 119TH ST	158.92
Community	South Rotary Park	1604 SW 15TH ST	40.90
Community	Southern Oaks Park	6818 S WALKER AV	22.34
Neighborhood	Sparrow Park	300 NW 30TH ST	2.58
Community	Stars & Stripes Park	3701 S LAKE HEFNER DR	69.15
Greenspace	Stiles Circle Park	379 N STILES	0.72
Nature	Stinchcomb Wildlife Refuge	5101 N STINCHCOMB AV	965.04
Detention Pond	Straka Detention Pond	1203 SW 84TH ST	24.49
Neighborhood	Swatek Park	2301 NW 29TH ST	2.82
Neighborhood	Syl Goldman Park	5333 S INDEPENDENCE AV	23.31
Community	Taylor Park	1115 SW 70TH ST	7.22
Sports Complex	Ted Reynolds Park	3005 W RENO AVE	11.32
Neighborhood	Tinsley Park	3243 NW 65TH ST	2.22
Neighborhood	Top O' Town Park	2102 S EVEREST AV	4.86
Metropolitan	Trosper Park (Fire Station)	2812 S EASTERN AVE	7.00
Metropolitan	Trosper Park (North)	2208 S EASTERN AVE	8.78
Metropolitan	Trosper Park (OKC Animal Shelter)	2811 SE 29TH ST	76.91
Metropolitan	Trosper Park (SE Park Maintenance Bldg.)	2307 SE 22ND ST	28.73
Metropolitan	Trosper Park (Shelter)	2300 SE 29TH ST	235.22
Neighborhood	Tulsa Park	2409 S TULSA AV	8.95
Green Space	Unnamed Open Space - A	1910 NE 66TH ST	1.80

Green Space	Unnamed Open Space - B	4701 N ANDERSON RD	3.96
Green Space	Unnamed Open Space - C	5800 SE 59TH ST	2.99
Green Space	Unnamed Open Space - D	1722 S DURLAND AV	0.19
Greenspace	Unnamed Open Space - E	2719 S MERIDIAN AVE	0.55
Greenspace	Unnamed Open Space (Canyon) - H	624 W I-44 HWY	22.04
Greenspace	Unnamed Open Space -F	902 NW 122ND ST	7.54
Community	Washington Park	400 N HIGH AV	17.68
Neighborhood	Wayman's Park	1900 N DREXEL BL	1.55
Community	Wheeler Park	1120 S WESTERN AV	88.36
Community	Wiley Post		14.58
Community	Wiley Post	2021 S ROBINSON AV	36.73
Community	Wiley Post (Skate Park)	1700 S ROBINSON AV	15.08
District	Will Rogers Park (East)	3301 NW 32ND ST	23.02
District	Will Rogers Park (West)	3400 NW 36TH ST	96.56
Neighborhood	Winans Park	2100 N BROADWAY	3.19
Neighborhood	Woodland Park	750 NE 50TH ST	7.36
Neighborhood	Woodrun Park (East)	4 N WILLOWOOD DR	7.85
Neighborhood	Woodrun Park (middle)	11735 SILVER MAPLE DR	0.47
Neighborhood	Woodrun Park (West)	309 AZALEA HILL DR	3.43
District	Woodson Park	3401 S MAY AV	121.72
Neighborhood	Youngs Park	4610 S YOUNGS BLVD	8.61
Neighborhood	Zach D. Taylor	633 NW 52ND ST	5.78
Neighborhood	Zurline Park	2800 S WOODWARD AV	2.82
Neighborhood	Zurline Park (North)	2350 S INDEPENDENCE	1.63

Appendix AI: Runoff Curve Numbers Identified by Hydrologic Soil Type for OKC Land Uses Identified Using the NLCD.

Land Use	Hydro Soil Group	Curve Number	Notes
Barren Land (Rock/Sand/Clay)	A	0.76	Used streets and roads - gravel
Barren Land (Rock/Sand/Clay)	B	0.85	Used streets and roads - gravel
Barren Land (Rock/Sand/Clay)	C	0.89	Used streets and roads - gravel
Barren Land (Rock/Sand/Clay)	D	0.91	Used streets and roads - gravel
Cultivated Crops	A	0.65	Small Grain, Assumed Poor Condition. Contoured
Cultivated Crops	B	0.76	Small Grain, Assumed Poor Condition. Contoured
Cultivated Crops	C	0.84	Small Grain, Assumed Poor Condition. Contoured
Cultivated Crops	D	0.88	Small Grain, Assumed Poor Condition. Contoured
Deciduous Forest	A	0.36	Woods, Assumed Fair Condition
Deciduous Forest	B	0.6	Woods, Assumed Fair Condition
Deciduous Forest	C	0.73	Woods, Assumed Fair Condition
Deciduous Forest	D	0.79	Woods, Assumed Fair Condition
Developed, High Intensity	A	0.77	Residential, Assumed 1/8 Acre Lots and Average % Impervious of 65%
Developed, High Intensity	B	0.85	Residential, Assumed 1/8 Acre Lots and Average % Impervious of 65%
Developed, High Intensity	C	0.9	Residential, Assumed 1/8 Acre Lots and Average % Impervious of 65%
Developed, High Intensity	D	0.92	Residential, Assumed 1/8 Acre Lots and Average % Impervious of 65%
Developed, Low Intensity	A	0.57	Residential, Assumed 1/3 acre lots and Average 30% Impervious
Developed, Low Intensity	B	0.72	Residential, Assumed 1/3 acre lots and Average 30% Impervious
Developed, Low Intensity	C	0.81	Residential, Assumed 1/3 acre lots and Average 30% Impervious
Developed, Low Intensity	D	0.86	Residential, Assumed 1/3 acre lots and Average 30% Impervious
Developed, Medium Intensity	A	0.61	Residential, Assumed 1/4 acre lots and average 38% Impervious
Developed, Medium Intensity	B	0.75	Residential, Assumed 1/4 acre lots and average 38% Impervious
Developed, Medium Intensity	C	0.83	Residential, Assumed 1/4 acre lots and average 38% Impervious
Developed, Medium Intensity	D	0.87	Residential, Assumed 1/4 acre lots and average 38% Impervious

Land Use	Hydro Soil Group	Curve Number	Notes
Developed, Open Space	A	0.49	Laws, parks, golf courses. Assumed Fair Condition (grass cover 50-75%)
Developed, Open Space	B	0.69	Laws, parks, golf courses. Assumed Fair Condition (grass cover 50-75%)
Developed, Open Space	C	0.79	Laws, parks, golf courses. Assumed Fair Condition (grass cover 50-75%)
Developed, Open Space	D	0.84	Laws, parks, golf courses. Assumed Fair Condition (grass cover 50-75%)
Emergent Herbaceous Wetlands	A	0	Assumed no runoff
Emergent Herbaceous Wetlands	B	0	Assumed no runoff
Emergent Herbaceous Wetlands	C	0	Assumed no runoff
Emergent Herbaceous Wetlands	D	0	Assumed no runoff
Evergreen Forest	A	0.43	Woods, Assumed Fair Condition
Evergreen Forest	B	0.65	Woods, Assumed Fair Condition
Evergreen Forest	C	0.76	Woods, Assumed Fair Condition
Evergreen Forest	D	0.82	Woods, Assumed Fair Condition
Grassland / Herbaceous	A	0.49	Open Space (lawns, parks, golf courses) Assumed Fair Condition
Grassland / Herbaceous	B	0.69	Pasture, grassland or rage. Assumed in fair condition (50-75% ground cover not heavily grazed)
Grassland / Herbaceous	C	0.79	Pasture, grassland or rage. Assumed in fair condition (50-75% ground cover not heavily grazed)
Grassland / Herbaceous	D	0.84	Pasture, grassland or rage. Assumed in fair condition (50-75% ground cover not heavily grazed)
Open Water	A	0	Assumed no runoff
Open Water	B	0	Assumed no runoff
Open Water	C	0	Assumed no runoff
Open Water	D	0	Assumed no runoff
Pasture / Hay	A	0.49	Pasture, grassland or rage. Assumed in fair condition (50-75% ground cover not heavily grazed)

Land Use	Hydro Soil Group	Curve Number	Notes
Pasture / Hay	B	0.69	Pasture, grassland or rage. Assumed in fair condition (50-75% ground cover not heavily grazed)
Pasture / Hay	C	0.79	Pasture, grassland or rage. Assumed in fair condition (50-75% ground cover not heavily grazed)
Pasture / Hay	D	0.84	Pasture, grassland or rage. Assumed in fair condition (50-75% ground cover not heavily grazed)
Woody Wetlands	A	0	Assumed no runoff
Woody Wetlands	B	0	Assumed no runoff
Woody Wetlands	C	0	Assumed no runoff
Woody Wetlands	D	0	Assumed no runoff

Appendix AJ: Renewal of the Oklahoma City Municipal Separate Storm Sewer Permit (MS4) Correspondence (2017)

The City of
OKLAHOMA CITY
DEPARTMENT OF PUBLIC WORKS

RECEIVED
SEP 14 2017
WATER QUALITY DIVISION

September 15, 2017

Michael Jordan, P.E., Manager
Oklahoma Department of Environmental Quality
707 N. Robinson
P. O. Box 1677
Oklahoma City, OK 73101-1677

Subject: Renewal of the Oklahoma City Municipal Separate Storm Sewer Permit (MS4)

Dear Mr. Jordan:

Pursuant to rules set forth in 40 CFR 122, the City must submit the reapplication on the Phase I MS4 Permit, OKS000101, 180 days prior to the permit expiration date of March 14, 2018. It is my privilege to submit the attached Storm Water Municipal Separate Storm Sewer System (MS4) Application for the City of Oklahoma City and Co-Permitees Oklahoma Turnpike Authority and Oklahoma Department of Transportation.

With this in mind we submit the following proposed changes to the City of Oklahoma City Permit OKS000101 for the upcoming five (5) year term of 2018-2023.

Item 1: Current permit language, Part I, Discharges Authorized Under This Permit, Section C.1.d.:

d. Collection of representative wet weather monitoring data required by Part V.B according to such agreements as may be established between permittees;....

Proposed permit language change, Part I, Discharges Authorized under This Permit, Section C.1.d.

d. Collection of representative continuous flow and flow weighted sampling data required by Part V.B according to such agreements as may be established between parties;...

- **Comment 1**: See Item 5, 12, 15 and 16 for additional information.

Item 2: Current permit language, Part II, Storm Water Management Program, Section A6(2)d.

The discharge or disposal of used motor vehicle fluids, household hazardous wastes, grass clippings, leaf litter, and animal wastes into separate storm sewers shall continue to be prohibited. The permittee(s) shall ensure the program continue to be implemented, revised and updated as necessary, to collect used motor vehicle fluids (at a minimum, oil and antifreeze) for recycle, reuse, or proper disposal and to collect household hazardous waste materials (including paint, solvents, pesticides, herbicides, and other hazardous materials) for recycle, reuse, or proper disposal. Such programs

*shall be **readily available to all private residents** and shall be publicized and promoted on a regular basis. (Emphasis added)*

Proposed permit language change, Part II, Storm Water Management Program, Section A6(2)d.

The discharge or disposal of used motor vehicle fluids, household hazardous wastes, grass clippings, leaf litter, and animal wastes into separate storm sewers shall continue to be prohibited. The permittee(s) shall ensure the program continue to be implemented, revised and updated as necessary, to collect used motor vehicle fluids (at a minimum, oil and antifreeze) for recycle, reuse, or proper disposal and to collect household hazardous waste materials (including paint, solvents, pesticides, herbicides, and other hazardous materials) for recycle, reuse, or proper disposal. Such programs shall be readily available to all **qualifying Oklahoma City residents or residents from other communities with legal interjurisdictional agreements** and shall be publicized and promoted on a regular basis. (Emphasis added)

Item 3: Current permit language, Part II, Storm Water Management Program (SWMP), Section 6a, Part (1):

(1) Categories of non-storm water discharges that the permittee(s) may exempt from the Prohibition on non-storm water entering the MS4 include:

(a) Water line flushing;
(b) Landscape irrigation;
(c) Diverted stream flows;
(d) Rising ground waters;
(e) Uncontaminated ground water infiltration to separate storm sewers;
(f) Uncontaminated pumped ground water;
(g) Discharge from potable water sources;
(h) Foundation drains;
(i) Air conditioning condensation;
(j) Irrigation water;
(k) Springs;
(l) Water from crawl space pumps;
(m) Footing drains;
(n) Lawn watering;
(o) Individual residential car washing;
(p) Flows from riparian habitats and wetlands;
(q) Dechlorinated swimming pool discharges;
(r) Discharges from emergency fire fighting activities provided procedures are in place for the Incident Commander, Fire Chief, or other on-scene fire fighting official in charge to make an evaluation regarding potential releases of pollutants from the scene. Measures must be taken to reduce any pollutant releases to the maximum extent practicable subject to all appropriate actions necessary to ensure public health and safety. These procedures must be documented in your SWMP. Discharges or flows from fire fighting training activities are not authorized by this permit.

Proposed permit language change, Part II, Storm Water Management Program (SWMP), Section 6a, Part (1):

(1) Categories of non-storm water discharges that the permittee(s) may exempt from the prohibition on non-storm water entering the MS4 include:
   (a) Water line flushing;
   (b) Landscape irrigation;
   (c) Diverted stream flows;
   (d) Rising ground waters;
   (e) Uncontaminated ground water infiltration to separate storm sewers;
   (f) Uncontaminated pumped ground water;
   (g) Discharge from potable water sources;
   (h) Foundation drains;
   (i) Air conditioning condensate;
   (j) Irrigation water;
   (k) Springs;
   (l) Water from crawl space pumps;
   (m) Footing drains;
   (n) Lawn watering;
   (o) Individual residential car washing;
   (p) Flows from riparian habitats and wetlands;
   (q) Dechlorinated swimming pool discharges **(excluding filter backwash or discharges associated with salt water pool systems)**. (Emphasis added)
   (r) Discharges from emergency firefighting activities provided procedures are in place for the Incident Commander, Fire Chief, or other on-scene fire fighting official in charge to make an evaluation regarding potential releases of pollutants from the scene. Measures must be taken to reduce any pollutant releases to the maximum extent practicable subject to all appropriate actions necessary to ensure public health and safety. These procedures must be documented in your SWMP. Discharges or flows from fire fighting training activities are not authorized by this permit.
   (s) Surface water impoundment discharges from draining activities (provided that controls are put into place prior to commencement of any draining activities not associated with precipitation to limit the discharge of any associated pollutants or sediments and to control the quantity of the discharge rate and volume as to not cause or contribute to significant bank erosion, streambed scour or downstream flooding). (Emphasis added)

- **Comment 2**: Item (q) should be amended to ensure that salt water pool systems and pool filter backwash is prohibited regardless of dechlorination. Item (s) is related to the drainage of ponds, reservoirs, detention, retention basins or other dewatering activities which do not require a permit (such as a construction site). Best management practices should be used to reduce or eliminate the discharge of pollutants during the dewatering activities. Best Management Practices may include filtering the discharge through a dewatering bag or similar structure, draining from the surface of the pond, limiting the amount of bottom sludge disturbed during the draining process, obtaining permission from the applicable municipality prior to draining the structure and limiting the flow into receiving storm drainage structures or receiving streams.

Item 4: Current permit language, Part II, Storm Water Management Program (SWMP) Section 3

13a, Monitoring Programs:

*The Dry Weather Screening Program shall continue ongoing efforts to detect the presence of illicit connections and improper discharges to the MS4. **All areas of the MS4** must be screened at least once during the permit term. Screening methodology... (Emphasis added)*

Proposed permit language change, Part II, Storm Water Management Program (SWMP), Section 13a: The Priority Based Monitoring Program:

The Dry Weather Screening Program shall continue ongoing efforts to detect the presence of illicit connections and improper discharges to the MS4. **All representative locations** must be screened at least once during the permit term. Screening methodology… (Emphasis added)

Item 5: Current permit language, Part II, Storm Water Management Program (SWMP) Section 13b, *The Wet Weather Screening Program*:

The permittee(s) shall identify, investigate, and address areas within their jurisdiction that may be contributing excessive levels of pollutants to the MS4. The wet weather screening program:

(1). Shall screen the MS4, in accordance with the procedures specified in the SWMP;

(2). Shall specify the sampling and non-sampling techniques to be used for initial screening and follow-up purposes. Sample collection and analysis need not conform to the requirements of OAC 252:606-1-3(b)(7) adopting and incorporating by reference 40 CFR Part 136. However, samples taken to confirm (e.g. in support of possible legal action) a particular illicit connection or improper disposal practice should conform to the requirements of OAC 252:606-1-3(b)(7).

- **Proposed permit language change**, Trend and Load Based Monitoring: The permittee(s) shall identify representative drainages to monitor and calculate annual loadings based on continuous monitoring of flow and select parameters. A flow weighted sampling approach will be used to collect individual aliquots which will be composited as a flow weighted sample for laboratory analysis. Sample analysis will conform to 40 CFR Part 136. The Trend and Load Based Monitoring Program will provide long-term stream quality information which will assist Oklahoma City to determine if programmatic changes are creating measurable changes within the drainages monitored. The Load Based Monitoring Program:

  (1) Shall be selected from representative drainages within the jurisdiction;
  (2) Shall be monitored in accordance with the procedures specified in the SWMP;
  (3) Shall specify the sampling and data needs associated with the data quality objectives. Sample collection will conform to applicable standard operating procedures and analytical services will conform to the requirements of OAC 252:606-1-3(b)(7) adopting and incorporating by reference 40 CFR Part 136.

- **Comment 3:** See Item 12, 15 and 16 for additional program language.

Item 6: Current permit language, Part II, Storm Water Management Program (SWMP) Section 13c, *The Priority Based Monitoring Program: The program shall consist of monitoring stream segments to determine watershed priority areas. Two monitoring levels have been established using water quality standards violation rates to categorize the applicable stream segments. Segments which exhibited a violation rate of <15% are considered Level I and segments which exhibited a violation rate of ≥ 15% are categorized as a Level II stream segment. Level I stations will be*

established to confirm/refute the historical monitoring data in relation to State Water Quality Standards violations detected during the Watershed Characterization Program. Level I segment will typically consist of monitoring select parameters at the original monitoring station established within the applicable watershed which will generally be the original station monitored during the Watershed Characterization Program. Stream data collected for Level I monitoring efforts will be utilized to refute/confirm previous evaluations, however if Water Quality Standards violations are confirmed, the stream segment may be remanded to a Level II monitoring effort. Level II segments will be monitored at several stations within the watershed to acquire information on select parameters at multiple stations in the watershed. This information will be used to assist in the identification of priority areas within the watershed. Each monitoring level (I and Level II) will consist of directed monitoring of onsite field chemistry, laboratory samples or biological collections, when applicable. Each monitoring effort may require different levels of data generation.

- **Proposed permit language change**, Part II, Storm Water Management Program (SWMP), Section 13c: The Priority Based Monitoring Program: The program shall consist of monitoring stream segments to determine watershed priority areas. Two monitoring levels have been established using water quality standards violation rates to categorize the applicable stream segments. Segments which exhibited a violation rate of <15% are considered Level I and segments which exhibited a violation rate of ≥ 15% are categorized as a Level II stream segment. Level I stations will be established to confirm/refute the historical monitoring data in relation to State Water Quality Standards violations detected during the Watershed Characterization Program **(or other agency supplied information)**. Level I segment will typically consist of monitoring select parameters at the original station monitored during the Watershed Characterization Program. Stream data collected for Level I monitoring efforts will be utilized to refute/confirm previous evaluations. Level II segments will be monitored at several stations within the watershed to acquire information on select parameters at multiple stations in the watershed. This information will be used to assist in the identification of priority areas within the watershed. Each monitoring level (I and Level II) will consist of onsite field chemistry, laboratory samples, biological collections or visual observations, when applicable. Each monitoring effort may require different levels of data generation. (Emphasis added)

- **Comment 4**: SWQ has monitoring scheduled through May 2020. At that point, the project objectives will be completed and the project closed. A comprehensive compilation of relevant biological collections and water quality information collected for each permit year will be provided in the Oklahoma City MS4 Annual Report. SWQ will submit a list of monitoring locations, collected information, summary data sheets and assessments regarding the status of the assessed reaches within the scope of relevant criteria in the 2020 Oklahoma City Annual Report. See schedule details in Item 12.

Item 7: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 3: *Flood Control Projects and Structural Controls.*

a. Update Capital Improvement Program list for the City of Oklahoma City proposed General Obligation Bond authorization for 2007.

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 3: Flood Control Projects and Structural Controls.

a. Update Capital Improvement Program list for the City of Oklahoma City's **current and proposed** General Obligation Bond authorizations. (Emphasis added)

Item 8: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 7(b): *Public Outreach.*

a. Install an average of 500 curb markers annually using volunteers and City employees.

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 7(b): Public Outreach.
  a. **Inspect, install or re-install** an average of 500 curb markers annually using volunteers and City employees. Identification of embossed storm drains will count towards that annual total. (Emphasis added)

Item 9: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 10(b): *Pollution Complaint and Spills Response Program.*

a. Continue to respond as technical support for the City of Oklahoma City Hazardous Materials Unit on hazardous material incidents.

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 10(b): Pollution Complaint and Spills Response Program.
  a. Continue to respond as technical support for City of Oklahoma City **emergency responders to incidents which may cause or contribute to storm water contamination**.(Emphasis added)

Item 10: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 11(a): *Floatables.*

*a. Update the study targeting structural controls for floatables, including an update in annual report..**(Emphasis added)***

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 11(a): Floatables.
  a. Update the study targeting structural controls for floatables, including an update in annual report.(extra period removed)

Item 11: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 12(a-c): *Wet Weather Analytical.*

SWMP Component	*Activity*	*Responsible Permittee(s)*	*Date Due/Frequency*
12. Wet Weather Analytical	*a. Submit a revised monitoring list of three (3) representative monitoring locations.*	*All*	*Annually*

	b. Conduct monitoring to characterize storm water discharges at three (3) representative monitoring locations at a frequency of two (2) times per permit year.	*All*	*Annually*
	c. Submit, in the annual report, analytical summary reports detailing constituent loadings from representative storm events during the permit year.	*All*	*Annually*

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 12: Trend and Load Based Monitoring Program.

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
12. Trend and Load Based Monitoring	a. Submit a revised monitoring list of 15 selected monitoring locations with target dates for each station to be activated.	All	6 months from the effective date of the permit
	b. Year 1 - Install, calibrate and activate 5 water quality monitoring stations	All	Year 1 Annual Report
	c. Year 2- Install, calibrate and activate 5 water quality monitoring stations	All	Year 2 Annual Report
	d. Year 3- Install, calibrate and activate 5 water quality monitoring stations	All	Year 3 Annual Report
	e. After station installation and calibration, provide continuous monitoring	All	Annually
	f. Submit, in the annual report, a summary of all analytical results and calculated discharge results for each station monitored.	All	Annually
	g. Provide a comprehensive summary report which details the pollutant loadings and any trends realized through statistical analysis.	All	Year 5 Annual Report

Item 12: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 13(a-h): *Priority Based Monitoring Program.*

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency

13. Priority Based Monitoring Program	a. Update the SWMP to include the Priority Based Monitoring Program	All	6 months from the effective date of the permit
	b. Submit a schedule for completion of each major monitoring milestone.	All	6 months from the effective date of the permit
	c. Complete Part 1 monitoring requirement	All	June 1, 2013
	d. Complete Part 2 monitoring requirement	All	September 1, 2014
	e. Complete Part 3 monitoring requirement	All	December 1, 2015, Annually
	f. Complete Part 4 monitoring requirement	All	March 1, 2017
	g. Provide a comprehensive compilation of relevant biological collections and water quality information, if applicable, collected for each permit year.	All	Annually
	h. Based on results of the Priority Based Monitoring Program, submit a list of monitoring locations, collected information, summary data sheets and assessments regarding the status of the assessed reaches within the scope of relevant criteria for data collected through April 30 of odd-numbered years.	All	Every two (2) years starting September 2013

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 13(a-g): Priority Based Monitoring Program.

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
13. Priority Based Monitoring Program	a. Update the SWMP to specify the remaining components of the Priority Based Monitoring Program	All	6 months from the effective date of the permit
	b. Submit a schedule according to completion of each major monitoring milestone – 6 months from the effective date of the permit.	All	6 months from the effective date of the permit
	c. Completion of Part 5 monitoring requirements	All	January 17, 2018

8

	d. Completion of Part 6 monitoring requirements	All	March 13, 2019
	e. Completion of Part 7 monitoring requirements	All	May 6, 2020
	f. Provide a comprehensive compilation of relevant biological collections and water quality information, if applicable, collected for each permit year.	All	Annually
	g. Based on results of the Priority Based Monitoring Program, submit a list of monitoring locations, collected information, summary data sheets and assessments regarding the status of the assessed reaches within the scope of relevant criteria. Submitted with the 2020 Oklahoma MS4 Annual Report.	All	Submitted with the 2020 Annually Report

Item 13: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 14(a-f): Illicit Discharge Detection and Elimination Program.

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
14. Illicit Discharge Detection and Elimination Program	*a. Complete field screening, 100% of the selected 554 monitoring locations*	*All*	*December 1, 2013*
	b. Complete field screening, cumulative 33% of the selected 554 monitoring locations	*All*	*December 1, 2014*
	c. Complete field screening, cumulative 33% of the selected 554 monitoring locations	*All*	*December 1, 2015*
	d. Complete field screening, cumulative 33% of the selected 554 monitoring locations	*All*	*December 1, 2016*
	e. Complete field screening, cumulative 100% of the selected 554 monitoring locations	*All*	*December 1, 2017*
	f. Submit field screening summaries including follow-up reports and summary statistics in the Annual Report.	*All*	*Annually*

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 14(a-f): Illicit Discharge Detection and Elimination Program.

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
14. Illicit Discharge Detection and Elimination Program	a. Complete field screening, cumulative 25% of the selected 554 monitoring locations (Year 1)	All	December 1, 2018
	b. Complete field screening, cumulative 25% of the selected 554 monitoring locations (Year 2)	All	December 1, 2019
	c. Complete field screening, cumulative 25% of the selected 554 monitoring locations (Year 3)	All	December 1, 2020
	d. Complete field screening, cumulative 25% of the selected 554 monitoring locations (Year 4)	All	December 1, 2021
	e. Complete field screening, 100% of the selected 554 monitoring locations (Year 5)	All	December 1, 2022
	f. Submit field screening summaries including follow-up reports and summary statistics in the Annual Report.	All	Annually

- **Comment 5**: Part III SWMP Component 14, Illicit Discharge Detection and Elimination. Progress has been made over the past permit terms to provide comprehensive responses to detections of non-storm water discharges. SWQ realizes that immediate response is often needed when excessive parameter detections are measured. To provide additional time for near immediate response, SWQ proposes reducing the number of stations monitored each permit year. This proposal requires OKC to monitor 25% of the stations year 1, 2, 3, and 4. Year 5 will consist of monitoring each of 545 stations to determine if follow-up efforts have been successful. During the years which reduced monitoring is required, personnel will use historically collected information to determine problematic areas and direct additional testing and investigation.

Item 14: Current permit language, Part V, Monitoring and Reporting Requirements, Section B, Item 3a Wet Weather Analytical Monitoring Requirements:

- **Comment 6:** Oklahoma City requests the removal of the Wet Weather Analytical Monitoring Requirement and proposes replacement with the Trend and Load Based Monitoring Program. Historically, SWQ has focused on individual storm quality with the Wet Weather Analytical Monitoring. Although the event mean concentration information provided by this program is good for some uses, it does not provide sufficient information to determine the annual

pollutant load or if any long-term trends are occurring with programmatic changes. The Trend and Load Based Monitoring Program will assist Oklahoma City by providing the data needed to calculate practical load estimations for specific parameters of interest with reasonable certainty. This program is intended to bring the monitoring efforts to a level which active and future TMDL's will require for assessment of pollutant loading (excluding bacteria or other parameters which require grab sampling or in-situ measurement). Through continuous monitoring, the natural flux, which often occurs in non-point source situations, is accounted for. The program considers all hydrologic conditions through flow paced sampling efforts. This program will be instituted in representative drainages throughout the City. Select parameters will be monitored continuously. Flow weighted samples will be collected at a frequency necessary to meet appropriate holding times and analytical procedures will be in accordance to 40 CFR Part 136. Oklahoma City will use automatic samplers, sondes and flow sensors to collect continuous flow weighted samples and calculate discharge. Duration of the sampling event, total discharge, total rainfall, and constituent concentrations will be recorded for each sampling event. Oklahoma City selected total suspended solids, total nitrogen and total phosphorus as the "primary parameters" to continuously monitor. Other parameters termed "secondary parameters" may be added if supporting data is required. Oklahoma City realizes the capital investment and station development will take several years to bring the anticipated 15 stations to active status.

- **Proposed permit language change**, Part V, Monitoring and Reporting Requirements, Section B, Trend and Load Based Monitoring Program:
  A. Monitoring shall be conducted at in-stream monitoring locations with selected representative drainages in Oklahoma City Corporate boundaries to provide the parameter data and flow data necessary to calculate annual constituent loadings. Analytical monitoring will be conducted continuously (or as site conditions allow). Stations will be selected which represent Oklahoma City geographically and represent the various land uses which contribute to stream pollutant loading.
  B. Quantitative data will be used to calculate annual loading. Records shall be maintained of all analytical results, each date and duration of the sampling period (in hours), an estimated volume of the discharge sampled (in cubic feet), the estimated annual pollutant load, and the number of subsamples acquired for the composite sample.
  C. Composite Samples – Flow weighted composite samples shall be collected as follows: Composite Method – Flow weighted composite samples shall be collected automatically. In the cases that a parameter of interest requires a grab sample, that method must be used and the frequency of collection may be reduced to meet the data quality objectives established in applicable Quality Assurance Project Plans. The flow weighted sample may be composited in the field or laboratory and methods must adhere to standard operating procedures.
  D. Sampling Duration – Each sample episode duration shall not exceed the shortest holding time of the parameters monitored. As discharge will increase or decrease with seasonal changes and precipitation patterns samples may be collected at various intervals as sample volume demands.
  E. Aliquot Collection – the minimum aliquot collection required for a composite sample will be based on the sample quantity needed for analysis purposes and any quality assurance purposes. At a minimum, a composite sample must consist of at least three aliquots which provide sufficient volume for the laboratory analysis of the selected parameter.

F. Analytical Methods: Analysis and collection of samples shall be done in accordance with the methods specified at OAC 252:606-1-3(b)(7) adopting and incorporating by reference 40 CFR Part 136. Where an approved Part 136 method does not exist, any available method may be used unless a particular method or criteria for method selection (such as sensitivity) has been specified in the permit.

Item 15: Current permit language, Part V, Monitoring and Reporting Requirements, Table V.B. Analytical Monitoring Requirements:

	REPORT FOR EACH MONITORING PERIOD (each sample type)			*SAMPLE TYPE(S)*	
	Min.	*Ave.*	*Max*	*Grab*	*Composite*
Biochemical Oxygen Demand (BOD5) (mg/L)		Yes	Yes		Yes
Chemical Oxygen Demand (COD) (mg/L)		Yes	Yes		Yes
Oil and Grease (mg/L)		Yes	Yes	Yes	Yes
Total Suspended Solids (TSS) (mg/L)		Yes	Yes		Yes
Total Dissolved Solids (TDS) (mg/L)		Yes	Yes		Yes
Total Nitrogen (mg/L)		Yes	Yes		Yes
Total Kjeldahl Nitrogen (TKN) (mg/L)		Yes	Yes		Yes
Total Phosphorus (mg/L)		Yes	Yes		Yes
Dissolved Phosphorus (mg/L)		Yes	Yes		Yes
Total Cadmium (ug/L) (MQL 1 ug/L)		Yes	Yes		Yes
Total Copper (ug/L) (MQL 10 ug/L)		Yes	Yes		Yes
Total Lead (ug/L) (MQL 5 ug/L)		Yes	Yes		Yes
Total Zinc (ug/L) (MQL 20 ug/L)		Yes	Yes		Yes
E. coli (colonies/100 ml)		Yes	Yes	Yes	
pH (S.U.)	Yes		Yes	Yes	
Hardness (as CaCO3) (mg/L)	Yes	Yes	Yes	Yes	
Water Temperature (Degree C)	Yes	Yes	Yes	Yes	
Total Mercury (ug/L) (MQL 0.2 ug/L)		Yes	Yes		Yes
Total Thallium (ug/L) (MQL 10 ug/L)		Yes	Yes		Yes

- **Proposed permit language change**, Part V, Monitoring and Reporting Requirements, Table V.B. Analytical Monitoring Requirements:

MONITORING PARAMETERS		*REPORT FOR EACH MONITORING PERIOD (each sample type)*			*SAMPLE TYPE(S)*
Parameter	*Priority	*No. Samples*	*Total Discharge*	*Annual Load*	
Biochemical Oxygen Demand (BOD5) (mg/L)	Secondary	*	*	*	Composite
Chemical Oxygen Demand (COD) (mg/L)	Secondary	*	*	*	Composite
Oil and Grease (mg/L)	Secondary	*	*	*	Grab
Total Suspended Solids (TSS) (mg/L)	Primary	Yes	Yes	Yes	Composite

Total Dissolved Solids (TDS) (mg/L)	Secondary	*	*	*	Composite
Total Nitrogen (mg/L)	Primary	Yes	Yes	Yes	Composite
Total Kjeldahl Nitrogen (TKN) (mg/L)	Secondary	*	*	*	Composite
Total Phosphorus (mg/L)	Primary	Yes	Yes	Yes	Composite
Dissolved Phosphorus (mg/L)	Secondary	*	*	*	Composite
Total Cadmium (µg/L) (MQL 1 µg/L) 1	Secondary	*	*	*	Composite
Total Copper (µg/L) (MQL 10 µg/L) 1	Secondary	*	*	*	Composite
Total Lead (µg/L) (MQL 5 µg/L) 1	Secondary	*	*	*	Composite
Total Zinc (µg/L) (MQL 20 µg/L) 1	Secondary	*	*	*	Composite
E. coli (colonies/100 ml)	Secondary	*	*	*	Grab
pH (S.U.)	Secondary	*	*	*	Grab
Hardness (as CaCO3) (mg/L)	Secondary	*	*	*	Composite
Water Temperature (°C)	Secondary	*	*	*	Composite
Total Mercury (µg/L) (MQL 0.2 µg/L) 1	Secondary	*	*	*	Composite
Total Thallium (µg/L) (MQL 10 µg/L) 1	Secondary	*	*	*	Composite
Discharge (CFS)	Primary	*	Yes	*	Continuous

*Primary parameters are selected for long-term continuous monitoring as the key constituents for determining annual loading and trends. Secondary parameters may be added as needed to support additional monitoring needs.

Item 16: Current permit language, Part VIII, Definitions: *Flow-Weighted Composite Sample*

G. Flow-Weighted Composite Sample means a composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge.

- **Proposed permit language change**, Part VIII, Definitions: Flow-Weighted Composite Sample.

G. Flow-Weighted Composite Sample means a composite sample consisting of a mixture of aliquots collected at a constant time or volume interval, where the volume of each aliquot is proportional to the flow rate of the discharge or a constant volume is used and collected after a pre-determined discharge rate has been measured.

- **Comment 7:** Clarification of the definition provides expansion for the permittee to collect time proportional samples or flow proportional samples with equal or variable aliquot volumes.

Basic Contact Information:

Mayor and City Council Members

Mick Cornett, Mayor
James Greiner, Ward One
Ed Shadid, Ward Two
Larry McAtee, Ward Three
Todd Stone, Ward Four
David Greenwell, Ward Five
Margaret S."Meg" Salyer, Ward Six
John A. Pettis, Ward Seven
Mark K. Stonecipher, Ward Eight

Mailing Address for Mayor and City Council Members:
200 N. Walker, 3rd Floor
Oklahoma City, OK 73102

City Manager

James D. Couch, City Manager
Office of the City Manager
200 N. Walker, 3rd Floor
Oklahoma City, OK 73102

Public Works Director

Eric J. Wenger, P.E.
Public Works Director
420 W. Main St., 7th Floor
Oklahoma City, OK 73102

Storm Water Quality Management

Raymond Melton, CPESC, CSI
Environmental Protection Manager
420 W. Main St., 3rd Floor
Oklahoma City, OK 73102
(405) 297-2179, (Primary Contact)

Please contact Mr. Raymond Melton at (405) 297-2179 if you have any questions regarding this letter or if you require additional information.

Sincerely,

Eric J. Wenger, P.E., Director
Department of Public Works

Attachments

Pc: Darian Butler, Oklahoma Turnpike Authority
Tim Tegeler, Oklahoma Department of Transportation
Raymond Melton, Storm Water Quality

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

July 7, 2017

CERTIFIED MAIL

Raymond Melton, Stormwater Division Head
Oklahoma City (OKS-STORMWATER)
420 West Main Suite 700
Oklahoma City, OK 73102

RE: Application for Renewal of Discharge Permit Number OKS000101
Wastewater Treatment for Oklahoma City (OKS-STORMWATER), Oklahoma Co., Oklahoma
Facility ID No. MS4-PERMIT

Dear Mr. Melton:

On 6/17/2017, a letter was sent to you requesting a renewal application to be filled out for the above referenced discharge permit which will expire on 3/14/2018. Federal and State Regulations require that applications for permit renewal be made at least 180 days prior to the expiration date of the current permit. An application form with instructions was enclosed for your convenience. It should be filled out, signed, and returned to this office no later than 180 days prior to the expiration date of your permit. Please contact us if you need assistance. The deadline for receipt of your application is 9/15/2017.

In accordance with OAC 252:606-3-4 of the DEQ rules, effective July 1, 2011 an application fee is due when submitting an application for a permit. The application fee is non-refundable and is due when an application is filed with the DEQ. An invoice is enclosed describing your application fee. Please return the invoice with your payment and application to the Department of Environmental Quality, Accounts Receivable at P.O. Box 2036, Oklahoma City, OK 73101.

If your facility no longer has a discharge, but does have a total retention system (lagoon or land application), you will need to submit an Affidavit of No Discharge (AND). Please advise us if you need an AND. If the facility is no longer in existence and has no discharge or total retention system please contact us regarding a closure plan for the existing permit. If you have already completed and submitted an application, an AND, or closure plan please notify us as soon as possible. Thank you very much for your cooperation with this matter.

Please contact Accounts Receivable at (405) 702-1130 if you have questions concerning payment methods for your application fee. Please contact Tammi Johnson at (405) 702-8170 if you have any questions concerning the renewal of your permit.

Sincerely,

Micheal Jordan, P.E., Manager
Municipal Discharge and Stormwater Permitting
Water Quality Division

707 NORTH ROBINSON, P.O. BOX 1677, OKLAHOMA CITY, OKLAHOMA 73101-1677

printed on recycled paper with soy ink

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Quality Division

Mailing Address:
Department of Environmental Quality
Administrative Services - Accounts Receivable
P O Box 2036
Oklahoma City, OK 73101

DEQ's FEI # 73-6017987

INVOICE
NON-INDUSTRIAL DISCHARGE SYSTEMS

Account:
OKLAHOMA CITY (OKS-STORMWATER)
ACCOUNTS PAYABLE
420 WEST MAIN SUITE 700
OKLAHOMA CITY OK 73102

Address Changes: ARHelpDesk@deq.ok.gov

Invoice: 55700338
Invoice Date: 7/1/2017
Due Date: 10/2/2017
Purchase Order No.:

Note: Authorized Fees: Chapter OAC 252:606-3-4
Permit System Application Questions: 405-702-8100
Accounts Receivable Questions: 405-702-1130

Charge ID	Description	Quantity	Unit	Price	Extended
101057	Permit: General 5 Yr Non-Industrial Discharge - System Application	1	EA	$533.29	$533.29
	Review Permit - Renewal Individual Discharge Permit for Facility				
	Permit # OKS000101 for Site: , Oklahoma County - Expires 3/14/2018				

Fee Adjustments _____
Less Payments Received
Plus Returned Checks _____
Plus Refunds _____
PAY THIS AMOUNT $533.29

DETACH HERE KEEP

Invoice: 55700338 Amount Due: $533.29
59037

Please Choose One Form of Payment SEND
NON-INDUSTRIAL DISCHARGE SYSTEMS [55010]

Account:
OKLAHOMA CITY (OKS-STORMWATER)
420 WEST MAIN SUITE 700
OKLAHOMA CITY OK 73102

Facility Number: MS4-PERMIT Permit OKS000101

DEPARTMENT OF ENVIRONMENTAL QUALITY
ADMINISTRATIVE SERVICES - ACCOUNTS RECEIVABLE
P.O.BOX 2036
OKLAHOMA CITY, OK 73101

☐ Check Made Payable to DEQ
☐ Money Order Made Payable to DEQ
☐ Electronic Payment:* Date of Transfer_____
Chase; Routing #103000648 Account #10020052
* Please Notify DEQ Accounts Receivable:
Fax 405-702-7120 or email:.deqEFTnotification@DEQ.OK.GOV
☐ Purchase Order No.: _____
☐ Visa or MasterCard Card:
Pay by telephone: 405-702-1130
Pay by fax: 405-702-7120
Exp (mm/yy) DEQ Use Only

_____/_____
Authorized Signature and Phone #
Card Number:

OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Department of Environmental Quality
Administrative Services - Accounts Receivable
P O Box 2036
Oklahoma City, OK 73101

DEQ's FEI # 73-6017987

RECEIPT FOR PAYMENT

THE CITY OF OKLAHOMA CITY
420 W MAIN, STE 700
OKLAHOMA CITY, OK 73102

Fax #:
Fax To:
Email Address:

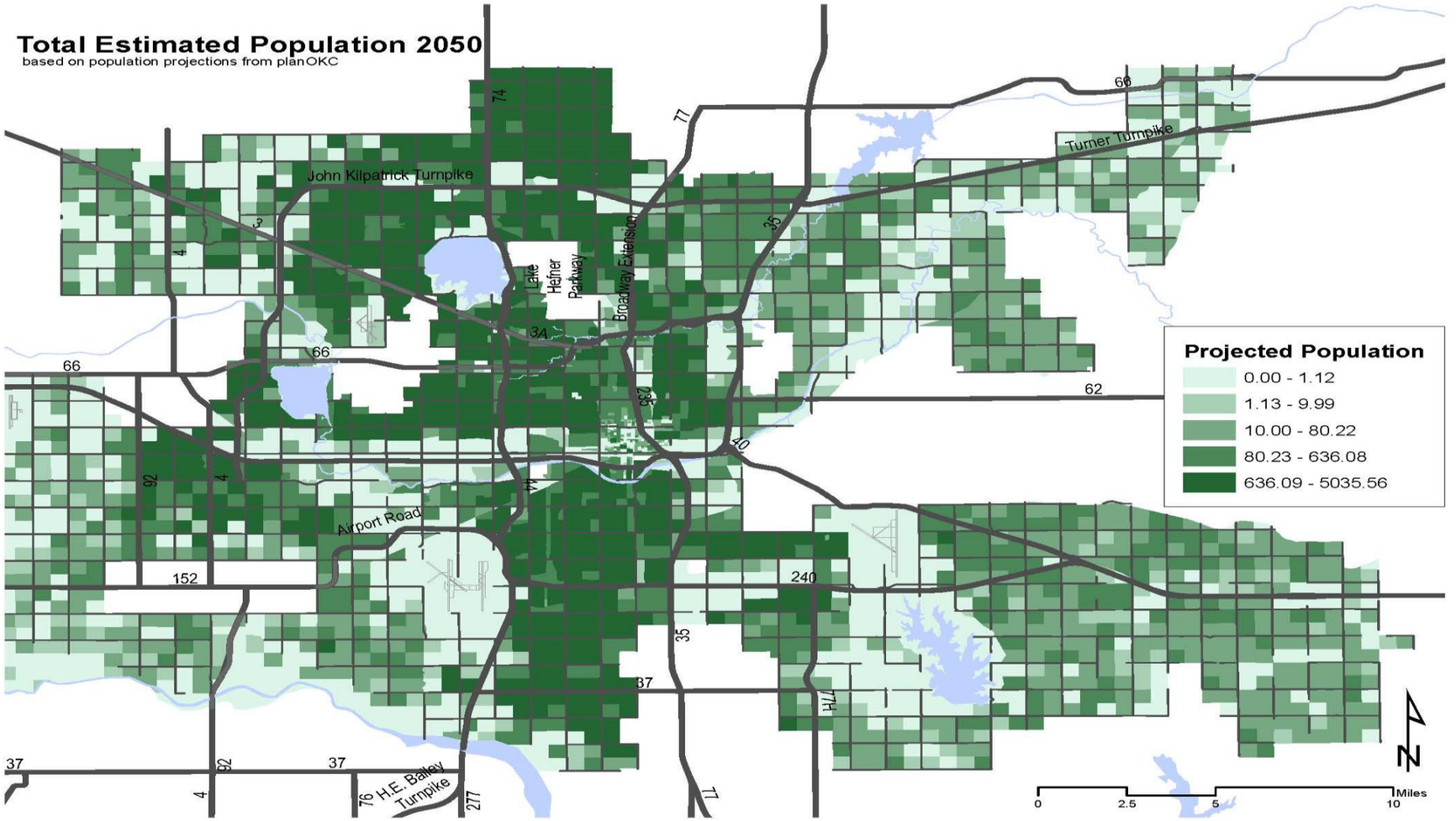
Type of Fee: MUNICIPAL AND INDUSTRIAL PDES FEES
Invoice: 55700338
VCP Case:
Permit ID: OKS000101

Form of Payment:

○ Cash ○ Check/MO ◉ Credit Card ○ CC Online ○ CC Lab ○ eCheck ○ Electronic Payment ○ Wire Trans

Date Received: 09/14/2017
Check Number:
Amount Received:
Amount Received: $533.29
Credit Card Approval Code: 051140
Logged in By: TGILLESPIE
Receipt Number: 693076

Appendix AK: Population Prediction - Areas of Growth 2050



Appendix AL: Municipal Waste Disposal Locations

Facility Name	Site ID	Program ID	Facility Type	City	County	Latitude	Longitude	Address
Oklahoma City Landfill	500	3555018	MSW	Oklahoma City	Oklahoma	35.449532	-97.645141	7600 SW 15th St, Oklahoma City, OK 73128
SE Oklahoma City Landfill	501	3555028	MSW	Oklahoma City	Oklahoma	35.39598	-97.4595	7001 S Bryant St, Oklahoma City, OK 73149
East Oak Sanitary Landfill	503	3555036	MSW	Oklahoma City	Oklahoma	35.507447	-97.414679	3201 Mosley Rd, Oklahoma City, OK 73141
Fill Sand Landfill (Closed)	100201	3555037	MSW	Oklahoma City	Oklahoma	35.466864	-97.667222	8701 W Reno Ave, Oklahoma City, OK 73127
Oklahoma City Household Hazardous Waste Collection & Transfer Station	508	3555054	TS	Oklahoma City	Oklahoma	35.512021	-97.511445	1621 S Portland Ave, Oklahoma City, OK 73108
Stericycle, OKC (Transfer Station)	0	3555049	MDTS	Oklahoma City	Oklahoma	35.5196639	-97.5105556	15 NE 47th Street, Oklahoma City, OK 73105
Prairie Dirt Solutions (OK County)	0	3555069	COMP	Oklahoma City	Oklahoma	35.569467	-97.494308	9240 N. Kelley Ave, Oklahoma City, OK 73131
Enso Solutions	0	3555065	COMP	Oklahoma City	Oklahoma	35.438333	-97.490833	2701 Haindl Drive, Oklahoma City, OK 73129
Fertile Ground Compost Facility #1	0	3555070	COMP	Oklahoma City	Oklahoma	35.443339	-97.511433	2228 S Santa Fe Ave, Oklahoma City, OK 73109
Medical Waste Services	0	3555067	MDTS	Oklahoma City	Oklahoma	35.425113	-97.483121	1604 SE 39t St, Oklahoma City, OK 73129

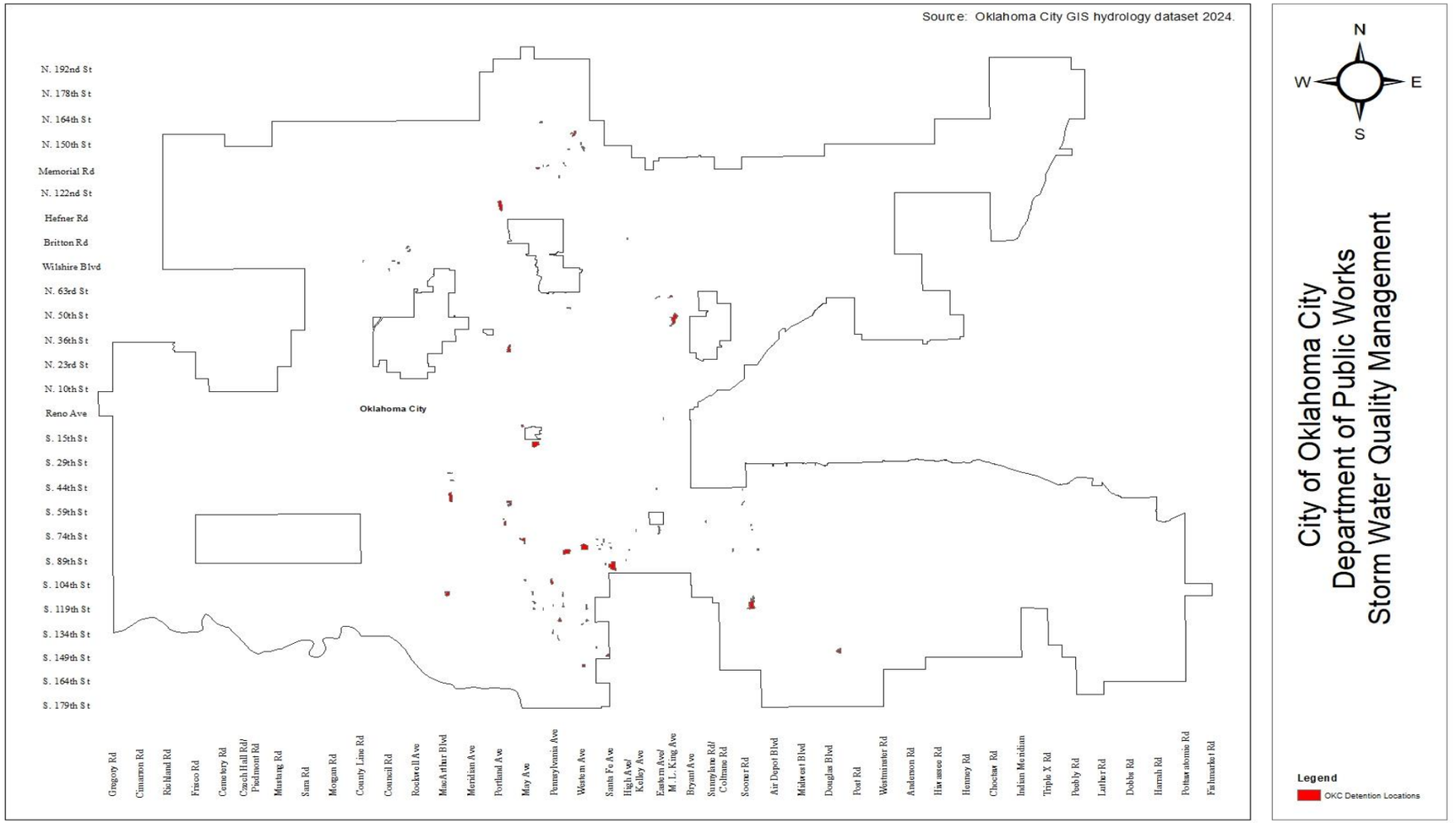
Appendix AM: Detention Structures in Oklahoma City

OBJECT ID	Location Description	Notes	Acres	X (-97)	Y (+35)
1	SE 82nd St & Gateway Terrace		0.45662	97° 29' 55.49" W	35° 23' 3.01" N
2	S Walker Av & S I-240 Service Road		0.450419	97° 31' 10.64" W	35° 23' 25.94" N
3	S Walker Av & SW 80th Street		0.372207	97° 31' 10.68" W	35° 23' 12.77" N
4	S Harvey Av & SW 83rd Street		0.425905	97° 31' 4.48" W	35° 23' 4.65" N
5	SW 79th St & Crystal Park Drive		0.79099	97° 30' 58.62" W	35° 23' 14.58" N
6	S Santa Fe Av & SE 79th Street		0.178777	97° 30' 41.76" W	35° 23' 17.45" N
7	S Santa Fe Av & Springfield Drive		1.455505	97° 30' 39.19" W	35° 23' 7.86" N
8	SW 79th St & S Santa Fe Avenue	West side of Santa Fe & Lowes	1.304777	97° 30' 55.30" W	35° 23' 22.57" N
9	NW 122nd St & Quail Creek Road	Dry Creek	24.68292	97° 34' 50.79" W	35° 35' 18.21" N
10			41.38598	97° 25' 13.76" W	35° 21' 5.90" N
11	SE 89th St & S Santa Fe Avenue	Lightning Creek HP"A"	37.55046	97° 30' 34.52" W	35° 22' 28.66" N
12	SW 81st St & S Western Avenue	Lightning Creek HP"B"	31.30948	97° 31' 40.38" W	35° 23' 9.35" N
13	SW 84th St & S McKinley Avenue	Lightning Creek HP"C"	23.74716	97° 32' 20.63" W	35° 22' 59.29" N
14			4.064511	97° 34' 1.08" W	35° 27' 27.90" N
15			1.385077	97° 28' 35.36" W	35° 27' 41.94" N
16			33.59119	97° 28' 9.11" W	35° 31' 14.77" N
17			11.23123	97° 21' 52.60" W	35° 19' 25.30" N
18	NW 32nd St & Independence Avenue	Deep Fork Will Rogers	15.41968	97° 34' 32.51" W	35° 30' 11.68" N
19	NW 82nd St & Lange Drive	Wilshire Hills Private	1.219419	97° 40' 9.15" W	35° 33' 20.91" N
20	SW 134th St & S Pennsylvania Avenue	Calistoga Crossing Private	1.845259	97° 32' 41.92" W	35° 19' 55.62" N
21	SW 134th St & S Pennsylvania Avenue	NW Corner - Vo-Tec Private	2.826317	97° 32' 53.53" W	35° 20' 7.67" N
22	SW 107th St & S Miller Avenue	East of Miller Ave	3.097221	97° 33' 40.73" W	35° 21' 31.63" N
23	S May Ave & SW 102nd Street		1.121572	97° 33' 57.73" W	35° 21' 59.17" N
24	W Wilshire Blvd & N Council Road		0.687023	97° 39' 9.00" W	35° 33' 1.65" N
25	SW 89th St & S Santa Fe Avenue	1 of 2	0.291327	97° 30' 51.45" W	35° 22' 33.73" N
26	SW 89th St & S Santa Fe Avenue	2 of 2	0.255932	97° 30' 52.09" W	35° 22' 31.89" N
27	S Western Ave & SW 119th Street		2.752743	97° 31' 35.63" W	35° 20' 59.05" N
28	SE 44th St & Eastern Avenue		0.367191	97° 28' 52.45" W	35° 25' 12.90" N
29	SE 44th St & S Sooner Road		0.337937	97° 25' 33.03" W	35° 25' 10.36" N
30	S I-35 Service Rd & I-240	West of Crossroads Mall	0.264739	97° 29' 40.29" W	35° 23' 44.09" N
31	SW 119th St & Southwood Drive	East of May Ave - Southwood Private	1.576184	97° 33' 37.26" W	35° 20' 58.24" N
32	Pinnacle Point & S Pennsylvania Avenue	Eagles Cove Private	0.5491	97° 32' 53.02" W	35° 21' 5.72" N
33	Copper Trails Ln & SW 119th Street	Copper Trails Private	2.887373	97° 32' 29.68" W	35° 21' 4.87" N
34	W Britton Rd & N Rockwell Avenue	Previously Silver Springs Crossing Private	3.570982	97° 38' 26.55" W	35° 33' 50.01" N
35	NW Expressway & N Rockwell Avenue	Brixton Square Private	2.596288	97° 38' 22.18" W	35° 33' 42.47" N
36	NW 82nd St & Silver Crossing	Silver Springs Crossing Private	2.007952	97° 38' 58.60" W	35° 33' 20.02" N
37	I-44 & SW 53rd Street	3 of 3 - Twin Creek Almonte	2.118105	97° 34' 35.33" W	35° 24' 40.39" N
38	SW 15th St & S Agnew Avenue	Twin Creek Stockyards	28.01779	97° 33' 32.20" W	35° 26' 48.86" N
39	SE 82nd St & Woodbend Drive	Crutcho Creek Wind Woods Est	2.079463	97° 25' 55.49" W	35° 23' 1.63" N

OBJECT ID	Location Description	Notes	Acres	X (-97)	Y (+35)
40	W Memorial Rd & Pawnee Drive	Chisholm Creek Redlands	2.291109	97° 32' 21.37" W	35° 36' 45.28" N
41	S MacArthur Blvd & SW 104th Street	Airport South	13.96422	97° 36' 57.64" W	35° 21' 31.48" N
42	Glade Ave & W Wilshire Blvd	Rockwell Industrial Park Private	2.905408	97° 38' 48.30" W	35° 33' 15.83" N
43	Martin Luther King & I-44	1 of 3	0.66097	97° 28' 43.63" W	35° 32' 2.54" N
44	Martin Luther King & I-44	2 of 3	0.121639	97° 28' 48.40" W	35° 32' 0.75" N
45	Martin Luther King & I-44	3 of 3	0.163675	97° 28' 51.26" W	35° 31' 58.46" N
46	Martin Luther King & NE 63rd Street	NW of Racetrack Private	4.292148	97° 28' 16.33" W	35° 32' 2.19" N
47	N Pennsylvania Ave & NW 63rd Street	Waterford Private	0.653454	97° 32' 48.63" W	35° 32' 10.63" N
48	NW 164th St & N Pennsylvania Avenue	Seminole Pointe Private	2.06685	97° 33' 15.39" W	35° 38' 15.21" N
49	Kingsridge Dr & SW 109th Place	Greenbriar Ponds - east of Pennsylvania	1.767516	97° 32' 30.10" W	35° 21' 27.99" N
50	S Pennsylvania Ave & SW 119th Street	Greenbriar ponds west of Kingsgate Dr	5.991957	97° 32' 37.54" W	35° 20' 34.38" N
51	S Western Ave & Wandering Way	Greenbriar pond north of Turtle Creek Rd	2.600081	97° 31' 35.20" W	35° 20' 32.87" N
52	NW 150th St & Brasswood Blvd	Brasswood Private	2.086257	97° 32' 11.93" W	35° 37' 17.02" N
53	N Classen Blvd & Belle Isle Blvd	Deep Fork-CloverLeaf-Belle Isle Private	3.771358	97° 32' 12.92" W	35° 31' 38.80" N
54	SW 149th St & S Santa Fe Avenue	Westmoor Private	4.01786	97° 30' 47.07" W	35° 19' 18.56" N
55	N Western Ave & NW 150th Street	Brenton Hills Private west of Worthington Ln	3.804617	97° 31' 42.78" W	35° 37' 28.52" N
56	N Western Ave & NW 150th Street	Glen Eagles Est Private west of Carlingford Way	5.570218	97° 31' 37.99" W	35° 37' 20.05" N
57	N Indiana Ave & NW 133rd Street	Memorial Plaza Private east of Penn	1.618755	97° 32' 34.19" W	35° 36' 18.19" N
58	W Memorial Rd & Highland Park Blvd	Quail Springs Mall Private	4.075968	97° 33' 23.33" W	35° 36' 37.43" N
59	S Western Ave & SW 126th Street	South of Apartments	1.486183	97° 31' 45.31" W	35° 20' 25.25" N
60	S Hudson Ave & SW 141st Street	corner of subdivision	2.224401	97° 31' 13.53" W	35° 19' 35.41" N
61	S Pennsylvania Ave & SW 104th Street		8.597616	97° 32' 56.05" W	35° 21' 55.84" N
62	S Western Ave & SW 154th Street		5.131788	97° 31' 43.59" W	35° 18' 56.60" N
63	S Western Ave & SW 119th Street	North pond	1.218095	97° 31' 35.73" W	35° 21' 4.61" N
64	Prairie Ridge Rd & SE 82nd Circle		2.771121	97° 24' 58.77" W	35° 23' 2.22" N
65	S Sunnylane Rd & SE 59th Street	1 of 4	1.726581	97° 26' 58.13" W	35° 24' 1.78" N
66	S May Ave & SW 115th Street		2.902409	97° 33' 36.81" W	35° 21' 11.71" N
67	SW 119th St & Autumn Leaves	Redbud Est	0.861438	97° 33' 15.95" W	35° 20' 58.25" N
68	SE 66th St & S Eastern Avenue		9.286225	97° 28' 46.72" W	35° 23' 44.59" N
69	S Sooner Rd & Holly Brooke Ln		1.806314	97° 25' 32.37" W	35° 24' 41.57" N
70	NW 138th St & N Pennsylvania Avenue	south side of street	0.301764	97° 33' 10.89" W	35° 36' 40.93" N
71	NW 138th St & N Pennsylvania Avenue	north side of street	0.167304	97° 33' 10.95" W	35° 36' 42.90" N
72	NW 138th St & N Pennsylvania Avenue	just west of Penn	0.068021	97° 33' 2.55" W	35° 36' 41.00" N
73	NW 138th Street & N Pennsylvania Avenue	NW corner of NW 138 & Penn	0.118265	97° 32' 59.44" W	35° 36' 42.73" N
74	W Memorial Rd & N Pennsylvania Avenue		0.114988	97° 33' 3.98" W	35° 36' 36.49" N
75	N Western Ave & Fairview Farm	1 of 3 - largest pond	9.817757	97° 31' 59.14" W	35° 37' 50.18" N
76	NW 63rd St & Harden Drive	Underground det Private file #1585	0.036109	97° 32' 20.24" W	35° 32' 10.80" N
77	S Sooner Rd & SE 66th Street	Liberty Trails north Private	0.70671	97° 25' 14.39" W	35° 23' 54.55" N
78	S Sooner Rd & SE 70th Street	Liberty Trails south Private	0.509342	97° 25' 11.82" W	35° 23' 44.91" N
79	SE 89th St & S Shields Blvd	Only seen on 2007 aerials	0.854229	97° 30' 4.07" W	35° 22' 40.98" N

OBJECT ID	Location Description	Notes	Acres	X (-97)	Y (+35)
80	N Lindsay Ave & Hester Street	NE of Britton & Kelley	1.00403	97° 29' 56.89" W	35° 34' 5.82" N
81	SW 33rd St & S Purdue Avenue	Private	0.499475	97° 36' 52.88" W	35° 25' 48.17" N
82	SW 33rd St & Purdue Avenue	East side of Purdue - 1 of 2 - Private	0.226301	97° 36' 45.62" W	35° 25' 48.62" N
83	SW 33rd St & Purdue Avenue	east of Purdue - 2 of 2 - Private	0.076334	97° 36' 45.89" W	35° 25' 47.38" N
84	SW 38th St & S Purdue Avenue	1 of 2 - Private	0.694144	97° 36' 45.70" W	35° 25' 32.57" N
85	SW 38th St & S Purdue Avenue	2 of 2 - Private	1.044416	97° 36' 44.87" W	35° 25' 31.61" N
86	S MacArthur Blvd & Newcastle Road	Airport North Airport Trust	19.85498	97° 36' 48.71" W	35° 24' 56.74" N
87	S Portland Ave & SW 65th Street	Airport East Airport Trust	4.972986	97° 34' 43.62" W	35° 24' 0.92" N
88	S Portland Ave & SW 63rd Street	Airport East Airport Trust	1.200171	97° 34' 46.83" W	35° 24' 9.71" N
89	SW 74th St & S May Avenue	South Community College	13.4565	97° 34' 1.16" W	35° 23' 24.54" N
90	SW 51st St & I-44	1 of 3 - Twin Creek-Almonte	4.482627	97° 34' 35.76" W	35° 24' 46.67" N
91	SW 51st St & S Independence Avenue	2 of 3 - Twin Creek Almonte	7.877582	97° 34' 31.32" W	35° 24' 41.16" N

Appendix AN: Map of Detention Facilities in Oklahoma City



Appendix AO: List of Outfall Locations to State Waterways

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 31' 54.08" W	35° 40' 24.23" N	Atlas Paving Co.	PD-0284	RCP	Danforth Farms Section 1	36"	NW 198th St & Harness Court	OKLAHOMA	4557	T14N R3W S21	5
97° 31' 50.35" W	35° 40' 13.46" N	Bishop Paving	PD-1676	RCP	Stonebriar Addition Section 2	42"		OKLAHOMA	4557	T14N R3W S21	5
97° 31' 51.36" W	35° 40' 16.83" N	Bishop Paving Company	PD-1679	RCP	Stonebriar Addition Section III	30"	N of NW 192nd St & E of N Western Ave	OKLAHOMA	4557	T14N R3W S21	5
97° 31' 52.60" W	35° 40' 24.54" N	Bishop Paving Company	PD-1679	RCP	Stonebriar Addition Section III	24"	N of NW 192nd St & E of N Western Ave	OKLAHOMA	4557	T14N R3W S21	5
97° 32' 1.81" W	35° 40' 12.71" N	Atlas Paving Co.	PD-1055	RCP	Stubblefield Addition	24"	N of NW 192nd St &W of Western Ave	OKLAHOMA	4457	T14N R3W S20	4
97° 32' 4.79" W	35° 40' 10.48" N	Atlas Paving Co.	PD-1055	Concrete	Stubblefield Addition	6'	N of NW 192nd St &W of Western Ave	OKLAHOMA	4457	T14N R3W S20	4
97° 32' 7.21" W	35° 40' 8.17" N	Atlas Paving Co.	PD-1055	Concrete	Stubblefield Addition	6'	N of NW 192nd St &W of Western Ave	OKLAHOMA	4457	T14N R3W S20	4
97° 32' 10.53" W	35° 40' 6.15" N	Atlas Paving Co.	PD-1055	Concrete	Stubblefield Addition	4'	N of NW 192nd St &W of Western Ave	OKLAHOMA	4457	T14N R3W S20	4
97° 31' 37.51" W	35° 39' 20.20" N	Schwarz Construction Co.	PD-0726	RCP	Palo Verde	36"	N of NW 178th St & E of Western Ave	OKLAHOMA	4556	T14N R3W S28	17
97° 31' 44.53" W	35° 39' 24.95" N	Schwarz Construction Co.	PD-0726	RCP	Palo Verde	24"	N of NW 178th St & E of Western Ave	OKLAHOMA	4556	T14N R3W S28	17
97° 31' 45.94" W	35° 39' 25.18" N	Schwarz Construction Co.	PD-0726	CGMP	Palo Verde	24"	N of NW 178th St & E of Western Ave	OKLAHOMA	4556	T14N R3W S28	17
97° 31' 39.79" W	35° 39' 11.31" N	T.J. Campbell Construction Co.	PD-1064	PCCB	Tierra Verde	5X4	N of NW 178th St & E of Western Ave	OKLAHOMA	4556	T14N R3W S28	17
97° 31' 38.02" W	35° 39' 17.10" N	T.J. Campbell Construction Co.	PD-1064	RCP	Tierra Verde	36"	N of NW 178th St & E of Western Ave	OKLAHOMA	4556	T14N R3W S28	17
97° 31' 59.37" W	35° 39' 39.02" N	Atlas Paving	PD-1350	RCP	Barrington Section 1	30"	S of NW 192nd St & W of Western Ave	OKLAHOMA	4456	T14N R3W S29	16
97° 32' 2.06" W	35° 39' 46.29" N	Atlas Paving	PD-1350	RCP	Barrington Section 1	30"	S of NW 192nd St & W of Western Ave	OKLAHOMA	4456	T14N R3W S29	16
97° 32' 8.54" W	35° 39' 52.02" N	Atlas Paving	PD-1350	RCP	Barrington Section 1	24"	S of NW 192nd St & W of Western Ave	OKLAHOMA	4456	T14N R3W S29	16
97° 32' 10.26" W	35° 39' 54.18" N	Atlas Paving	PD-1350	RCP	Barrington Section 1	24"	S of NW 192nd St & W of Western Ave	OKLAHOMA	4456	T14N R3W S29	16
97° 32' 2.77" W	35° 39' 52.43" N	T.J. Campbell Construction	PD-1554	RCP	Canyon Creek Addition	24"	S. of NW 192nd St & W of Western Avenue	OKLAHOMA	4456	T14N R3W S29	16
97° 32' 6.60" W	35° 39' 57.91" N	T.J. Campbell Construction	PD-1554	RCP	Canyon Creek Addition	30"	S. of NW 192nd St & W of Western Avenue	OKLAHOMA	4456	T14N R3W S29	16
97° 31' 58.63" W	35° 39' 45.32" N	Atlas Paving	PD-1350	RCP	Barrington Section 1	30"	S of NW 192nd St & W of Western Ave	OKLAHOMA	4456	T14N R3W S29	16
97° 32' 6.30" W	35° 39' 48.68" N	Atlas Paving	PD-1350	RCP	Barrington Section 1	24"	S of NW 192nd St & W of Western Ave	OKLAHOMA	4456	T14N R3W S29	16

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 32' 11.30" W	35° 39' 56.65" N	Atlas Paving	PD-1350	RCP	Barrington Section 1	24"	S of NW 192nd St & W of Western Ave	OKLAHOMA	4456	T14N R3W S29	16
97° 32' 10.06" W	35° 40' 0.53" N	Atlas Paving	PD-1350	RCP	Barrington Section 1	30"	S of NW 192nd St & W of Western Ave	OKLAHOMA	4456	T14N R3W S29	16
97° 31' 40.21" W	35° 38' 49.82" N	Consultant's Engineering Services	PD-0069	CGMP	The Valley Section 1	33"	SW ¼, Sec.33, T14N, R3W	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 38.89" W	35° 38' 50.36" N	Consultant's Engineering Services	PD-0860	CGMP	The Valley Section 1	36"	SW ¼, Sec.33, T14N, R3W	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 39.93" W	35° 38' 40.08" N	Consultant's Engineering Services	PD-0069	RCP	The Valley Section 1	54"	SW ¼, Sec.33, T14N, R3W	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 37.14" W	35° 38' 31.81" N	12-6-84	PD-0069	RCP	The Valley Section 1	30"	SW ¼, Sec.33, T14N, R3W	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 40.84" W	35° 38' 29.87" N	Atlas Paving Co.	PD-0254	RCP	Stone Ridge	30"	NW 167th St & Crest Valley	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 40.35" W	35° 38' 28.41" N	Atlas Paving Co.	PD-0254	RCP	Stone Ridge	24"	NW 166th St & Crest Valley	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 42.00" W	35° 38' 35.35" N	Atlas Paving Co.	PD-0680	RCP	The Valley Section 5		S. of NW 178th St & E of Western Ave.	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 42.20" W	35° 38' 41.99" N	Atlas Paving Co.	PD-0680	RCP	The Valley Section 5	24"	S. of NW 178th St & E of Western Ave.	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 41.37" W	35° 38' 44.99" N	Atlas Paving Co.	PD-0680	RCP	The Valley Section 5	30"	S. of NW 178th St & E of Western Ave.	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 37.04" W	35° 38' 56.29" N	Atlas Paving Co.	PD-0981	RCP	The Valley Section 8	24"	S of NW 178th St & E of Western Ave.	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 37.29" W	35° 38' 47.87" N			RCP				OKLAHOMA	4555	T14N R3W S33	57
97° 31' 37.25" W	35° 38' 48.74" N	Consultant's Engineering Services	PD-0069	CGMP	The Valley Section 1	42"	SW ¼, Sec.33, T14N, R3W	OKLAHOMA	4555	T14N R3W S33	57
97° 31' 46.67" W	35° 37' 37.52" N	Atlas Paving Co.	PD-1002	Concrete	N of NW 150th St & E of Western Ave	4	N of NW 150th St & E of Western Ave	OKLAHOMA	4554	T13N R3W S4	97
97° 31' 32.31" W	35° 37' 48.95" N	TJ Campbell Construction Co.	PD-1579	RCP	Brenton Hills Section 6	36"	N of NW 150th St & E of Western Ave	OKLAHOMA	4554	T13N R3W S4	97
97° 31' 39.60" W	35° 38' 0.20" N	Atlas Paving Company	PD-1272	RCP	Brenton Hills Section 4	42"	S of NW 164th St & E of Western Ave	OKLAHOMA	4554	T13N R3W S4	97
97° 31' 39.25" W	35° 38' 5.41" N	Burns Paving	PD-1288	RCP	The Villas At Cedar Creek Section 1	18"	S of NW 164th St & E of Western Ave	OKLAHOMA	4554	T13N R3W S4	97
97° 31' 38.91" W	35° 38' 12.65" N	Burns Paving	PD-1288	RCP	The Villas At Cedar Creek Section 1	18"	S of NW 164th St & E of Western Ave	OKLAHOMA	4554	T13N R3W S4	97
97° 31' 36.52" W	35° 38' 15.20" N	Burns Paving	PD-1288	RCP	The Villas At Cedar Creek Section 1	36"	S of NW 164th St & E of Western Ave	OKLAHOMA	4554	T13N R3W S4	97
97° 31' 41.71" W	35° 37' 41.41" N	Atlas Paving Co.	PD-1002	Concrete	Brenton Hills Section 5	4	N of NW 150th St & E of Western Ave	OKLAHOMA	4554	T13N R3W S4	97
97° 31' 45.61" W	35° 37' 30.30" N	Atlas Paving Co.	PD-1002	RCP	Brenton Hills Section 5	54"	N of NW 150th St & E of Western Ave	OKLAHOMA	4554	T13N R3W S4	97

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 31' 59.61" W	35° 37' 26.14" N	Males Brothers	PD-0141	CGMP	Paving & Drainage for Fairview Farm	54"	Burning Spring & Stoney Spring	OKLAHOMA	4454	T13N R3W S5	96
97° 35' 57.63" W	35° 38' 17.62" N	T.J. Campbell Construction Co.	PD-1460	RCP	Lone Oak Park	36"	S of NW 164th St & E of MacArthur Blvd	OKLAHOMA	4154	T13N R4W S2	93
97° 36' 3.58" W	35° 38' 9.67" N	T.J. Campbell Construction Co.	PD-1460	RCP	Lone Oak Park	36"	S of NW 164th St & E of MacArthur Blvd	OKLAHOMA	4154	T13N R4W S2	93
97° 36' 18.43" W	35° 37' 44.15" N							OKLAHOMA	4054	T13N R4W S3	92
97° 36' 16.46" W	35° 37' 58.61" N	T.J. Campbell Construction	PD-1456	Concrete	Lone Oak Pointe	6X4	S of NW 164th St & W of Pennsylvania Ave	OKLAHOMA	4054	T13N R4W S3	92
97° 36' 13.01" W	35° 38' 3.94" N	T.J. Campbell Construction Co.	PD-1460	RCP	Lone Oak Park	36"	S of NW 164th St & E of MacArthur Blvd	OKLAHOMA	4054	T13N R4W S3	92
97° 36' 21.89" W	35° 37' 54.63" N	TJ Campbell Construction	PD-1736	RCP	Lone Oak Run & Lone Oak Creek	42"	N of NW 150th St & E of MacArthur Blvd	OKLAHOMA	4054	T13N R4W S3	92
97° 36' 24.49" W	35° 37' 48.41" N	TJ Campbell Construction	PD-1736	RCP	Lone Oak Run & Lone Oak Creek	42"	N of NW 150th St & E of MacArthur Blvd	OKLAHOMA	4054	T13N R4W S3	92
97° 36' 23.16" W	35° 37' 44.00" N	T.J. Campbell Construction Co.	DD-0579	CON	Southwest Tract at Lone Oak		N of NW 150th St & E of MacArthur	OKLAHOMA	4054	T13N R4W S3	92
97° 39' 58.59" W	35° 37' 37.80" N	Burns Paving	PD-1766	RCP	Vizcaya Section 1	30"	N of NW 150th St & E of County Line Road	OKLAHOMA	3754	T13N R4W S6	89
97° 39' 58.43" W	35° 37' 44.78" N	Burns Paving	PD-1766	RCP	Vizcaya Section 1	36"	N of NW 150th St & E of County Line Road	OKLAHOMA	3754	T13N R4W S6	89
97° 40' 2.02" W	35° 37' 48.71" N	Burns Paving	PD-1766	RCP	Vizcaya Section 1	30"	N of NW 150th St & E of County Line Road	OKLAHOMA	3754	T13N R4W S6	89
97° 40' 2.62" W	35° 37' 30.18" N	Burns Paving	PD-1766	RCP	Vizcaya Section 1	30"	N of NW 150th St & E of County Line Road	OKLAHOMA	3754	T13N R4W S6	89
97° 32' 45.87" W	35° 36' 35.89" N		DD-0061	RCP		54"		OKLAHOMA	4453	T13N R3W S8	136
97° 32' 9.23" W	35° 37' 18.17" N		PD-0575	RCP		54"		OKLAHOMA	4453	T13N R3W S8	136
97° 32' 14.90" W	35° 37' 2.78" N	Atlas Paving Co.	PD-0673	RCP	Brasswood Section 3	24"	S of NW 150th St & W of Western Avenue	OKLAHOMA	4453	T13N R3W S8	136
97° 32' 16.31" W	35° 36' 58.30" N	Atlas Paving Co.	PD-0677	RCP	Brasswood Section 4	36"	S. of NW 150th St & W. of Western Ave.	OKLAHOMA	4453	T13N R3W S8	136
97° 32' 14.46" W	35° 36' 57.94" N	Atlas Paving Co.	8E629	CGMP	Paving Plans Redlands	36"	Redlands	OKLAHOMA	4453	T13N R3W S8	136
97° 32' 16.29" W	35° 36' 56.70" N	Atlas Paving Co.	8E629	RCP	Paving Plans Redlands	30"	Redlands	OKLAHOMA	4453	T13N R3W S8	136
97° 32' 34.12" W	35° 36' 51.78" N		DD-0024	RCP		42"		OKLAHOMA	4453	T13N R3W S8	136
97° 32' 24.06" W	35° 36' 48.16" N							OKLAHOMA	4453	T13N R3W S8	136
97° 32' 34.91" W	35° 36' 35.39" N	Comet Construction Co.	PD-0186	RCP	Memorial Plaza Section I	48"	NW 133rd St & Indiana Ave	OKLAHOMA	4453	T13N R3W S8	136

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 35' 29.06" W	35° 36' 44.40" N	M.M. Baker, City Engineer	66E122	RCP	Plan & Profile	30"	Quail Ridge Addition	OKLAHOMA	4153	T13N R4W S11	133
97° 36' 4.98" W	35° 37' 5.65" N	Atlas Paving Co.	PD-1116	RCP	Remington Section 6	48"	S of NW 150th St & E of Meridian Ave.	OKLAHOMA	4153	T13N R4W S11	133
97° 35' 59.12" W	35° 37' 15.43" N	Atlas Paving Co.	PD-1116	RCP	Remington Section 6	36"	S of NW 150th St & E of Meridian Ave.	OKLAHOMA	4153	T13N R4W S11	133
97° 35' 54.17" W	35° 37' 0.41" N	Atlas Paving Co.	PD-0251	RCP	Remington Sec 1	24"	NW 143rd St & Remington Way	OKLAHOMA	4153	T13N R4W S11	133
97° 35' 53.28" W	35° 36' 48.83" N			RCP				OKLAHOMA	4153	T13N R4W S11	133
97° 36' 19.76" W	35° 36' 34.63" N							OKLAHOMA	4053	T13N R4W S10	132
97° 36' 20.23" W	35° 36' 34.65" N							OKLAHOMA	4053	T13N R4W S10	132
97° 36' 19.79" W	35° 36' 36.10" N			RCP				OKLAHOMA	4053	T13N R4W S10	132
97° 36' 20.13" W	35° 36' 33.48" N			RCP				OKLAHOMA	4053	T13N R4W S10	132
97° 36' 20.46" W	35° 36' 33.47" N			RCP				OKLAHOMA	4053	T13N R4W S10	132
97° 36' 20.10" W	35° 36' 36.10" N			RCP				OKLAHOMA	4053	T13N R4W S10	132
97° 36' 20.23" W	35° 36' 37.47" N	T.J. Campbell Construction	PD-1120	RCP	Gaillardia Lots 1 &2	42"	N of Memorial Road & W of Meridian Ave.	OKLAHOMA	4053	T13N R4W S10	132
97° 39' 5.43" W	35° 36' 35.35" N							OKLAHOMA	3853	T13N R4W S8	130
97° 39' 54.72" W	35° 36' 50.15" N	TJ Campbell Construction Company	PD-2155	RCP	Pleasant Grove Section 2	24"	N of W Memorial Rd & W of N Council Rd	OKLAHOMA	3753	T13N R4W S7	129
97° 24' 7.94" W	35° 36' 20.82" N	T.J. Campbell Construction	PD-0956	CGMP	Raintree Acres	24"	S of Memorial Road & E of Air Depot	OKLAHOMA	5252	T13N R2W S15	184
97° 24' 7.59" W	35° 36' 26.81" N	T.J. Campbell Construction	PD-0956	CGMP	Raintree Acres	42"	S of Memorial Road & E of Air Depot	OKLAHOMA	5252	T13N R2W S15	184
97° 28' 13.14" W	35° 35' 42.95" N	Silver Star Construction	PD-1966	CON	Bella Mira Subdivision Phase I	4'	N of NE 122nd St & E of Eastern Ave	OKLAHOMA	4852	T13N R3W S13	180
97° 28' 15.54" W	35° 35' 47.65" N	Silver Star Construction	PD-1966	RCP	Bella Mira Subdivision Phase I	18"	N of NE 122nd St & E of Eastern Ave	OKLAHOMA	4852	T13N R3W S13	180
97° 28' 14.05" W	35° 35' 50.25" N	Silver Star Construction	PD-1966	RCP	Bella Mira Subdivision Phase I	30"	N of NE 122nd St & E of Eastern Ave	OKLAHOMA	4852	T13N R3W S13	180
97° 28' 52.76" W	35° 36' 27.07" N	Edmond Paving & Construction Co.	PD-0099	CGMP	Fox Creek	24"	NE 1/4, Sec. 14, T13N, R3W	OKLAHOMA	4752	T13N R3W S14	179
97° 28' 46.76" W	35° 36' 16.51" N	Burns Paving Co.	PD-0292	CGMP	The Oaks 1st Addition	18"	Oaks Way & Creeks End Circle	OKLAHOMA	4752	T13N R3W S14	179
97° 28' 46.25" W	35° 36' 17.74" N	Burns Paving Co.	PD-0292	CGMP	The Oaks 1st Addition	24"	Fox Creek Drive & Oaks Way	OKLAHOMA	4752	T13N R3W S14	179

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 28' 47.28" W	35° 36' 27.27" N	TJ Campbell Construction	PD-1942	RCP	The Pointe	30"	S of Memorial Road & W of Eastern Ave	OKLAHOMA	4752	T13N R3W S14	179
97° 28' 46.36" W	35° 36' 14.73" N	Burns Paving Co.	PD-0292	CGMP	The Oaks 1st Addition	18"	Oaks Way & Eastern Ave	OKLAHOMA	4752	T13N R3W S14	179
97° 28' 46.50" W	35° 36' 14.55" N	Burns Paving Co.	PD-0292	CGMP	The Oaks 1st Addition	18"	Oaks Way & Creeks End Circle	OKLAHOMA	4752	T13N R3W S14	179
97° 32' 23.60" W	35° 35' 49.72" N	Silver Star Construction	PD-1784	RCPA	Heritage Oaks Addition Section 1	36"x58"	N of NW 122nd St & W of Western Ave	OKLAHOMA	4452	T13N R3W S17	176
97° 32' 31.41" W	35° 35' 58.45" N	Silver Star Construction	PD-1932	RCP	Heritage Oaks Addition Section 4	30"	N of NW 122nd St & W of Western Ave	OKLAHOMA	4452	T13N R3W S17	176
97° 32' 27.28" W	35° 35' 50.31" N	Silver Star Construction	PD-1932	CON	PD-1932	6'x6"	N of NW 122nd St & W of Western Ave	OKLAHOMA	4452	T13N R3W S17	176
97° 32' 30.86" W	35° 35' 50.83" N	Silver Star Construction	PD-1932	CON	Heritage Oaks Addition Section 4	10'x6"	N of NW 122nd St & W of Western Ave	OKLAHOMA	4452	T13N R3W S17	176
97° 34' 43.49" W	35° 35' 56.86" N		28E603	RCB	Paving Plans for Quail Creek Section 2	2 - 10 x 8	Quail Creek Section 2	OKLAHOMA	4252	T13N R4W S13	174
97° 34' 37.41" W	35° 36' 2.25" N	Palm Paving Co.	28E608	RCP	Paving Plans Quail Creek	54"	Quail Creek	OKLAHOMA	4252	T13N R4W S13	174
97° 34' 43.75" W	35° 36' 13.45" N	Palm Paving Co.	29E608	RCP	Paving Plans Sect. 10 Quail Creek	30"	Quail Creek, Sect. 10	OKLAHOMA	4252	T13N R4W S13	174
97° 34' 43.44" W	35° 36' 13.10" N	Palm Paving Co.	29E608	RCP	Paving Plans Sect. 10 Quail Creek	36"	Quail Creek, Sect. 10	OKLAHOMA	4252	T13N R4W S13	174
97° 34' 37.18" W	35° 35' 41.20" N	Palm Paving Co.	15E610	RCP	Paving Plans Quail Creek, Sec. 3	54"	Quail Creek	OKLAHOMA	4252	T13N R4W S13	174
97° 34' 38.80" W	35° 35' 43.74" N	Palm Paving Co.	15E610	RCP	Paving Plans Quail Creek, Sec. 3	2.88%	Quail Creek	OKLAHOMA	4252	T13N R4W S13	174
97° 34' 39.91" W	35° 35' 43.95" N	Palm Construction Co.	18E610	RCP	Paving Plans Quail Creek, Sec. 8	24"	Quail Creek, Sec. 8	OKLAHOMA	4252	T13N R4W S13	174
97° 34' 58.28" W	35° 36' 23.22" N	Atlas Paving	PD-1759	RCP	Memorial Business Park	24"	S of Memorial Road & E of Portland Ave	OKLAHOMA	4252	T13N R4W S13	174
97° 35' 2.45" W	35° 36' 21.64" N	Palm Paving	PD-0539	RCP	Quail Creek	36"	S of Memorial Road & E of Portland Avenue	OKLAHOMA	4252	T13N R4W S13	174
97° 34' 55.30" W	35° 36' 21.74" N	Atlas Paving	PD-1759	RCP	Memorial Business Park	42"	S of Memorial Road & E of Portland Ave	OKLAHOMA	4252	T13N R4W S13	174
97° 35' 25.04" W	35° 36' 28.56" N	Slater Brothers Construction Co.	1E634	Concrete	Paving & Storm Sewer Plan		Green Valley Plaza	OKLAHOMA	4152	T13N R4W S14	173
97° 35' 29.57" W	35° 36' 30.44" N	M.M. Baker, City Engineer	66E122	RCP	Plan & Profile	30"	Quail Ridge Addition	OKLAHOMA	4152	T13N R4W S14	173
97° 35' 26.92" W	35° 35' 54.77" N	Slater Brothers Construction Co.	1E634	RCP	Paving & Storm Sewer Plan		Green Valley Plaza	OKLAHOMA	4152	T13N R4W S14	173
97° 35' 35.99" W	35° 35' 44.60" N	Slater Brothers Construction Co.	1E634	RCP	Paving & Storm Sewer Plan		Green Valley Plaza	OKLAHOMA	4152	T13N R4W S14	173
97° 36' 29.36" W	35° 35' 53.80" N	Males Brothers Paving, Inc.	PD-0035	CGMP	Bocage Addition	24"	NW 122nd St & Meridian Avenue	OKLAHOMA	4052	T13N R4W S15	172

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 36' 33.51" W	35° 35' 47.65" N	Males Brothers Paving, Inc.	PD-0035	CGMP	Bocage Addition	36"	W ½, SE ¼, Sec.15, T13N, R4W	OKLAHOMA	4052	T13N R4W S15	172
97° 36' 31.58" W	35° 35' 57.37" N	Slayter Brothers Construction Co.	PD-0339	CGMP	Val Verde West	36"	NW 122nd St & Meridian Avenue	OKLAHOMA	4052	T13N R4W S15	172
97° 36' 29.32" W	35° 35' 53.36" N	Slayter Brothers Construction Co.	PD-0339	CGMP	Val Verde West	24"	NW 122nd St & Meridian Avenue	OKLAHOMA	4052	T13N R4W S15	172
97° 36' 33.47" W	35° 35' 48.65" N	Slayter Brothers Construction Co.	PD-0339	CGMP	Val Verde West	36"	NW 122nd St & Meridian Avenue	OKLAHOMA	4052	T13N R4W S15	172
97° 36' 36.66" W	35° 35' 45.21" N	Slayter Brothers Construction Co.	PD-0339	CGMP	Val Verde West	36"	NW 122nd St & Meridian Avenue	OKLAHOMA	4052	T13N R4W S15	172
97° 36' 15.52" W	35° 35' 57.21" N	Slayter Brothers Construction Co.	4E629	CGMP	Paving Plan The Greens, Sec. 7	60"	The Greens, Sec. 7	OKLAHOMA	4052	T13N R4W S15	172
97° 36' 20.71" W	35° 36' 6.92" N	Slater Brothers Construction Co.	1E629	RCP	Paving & Storm Sewer	24"	The Greens Sect. 8	OKLAHOMA	4052	T13N R4W S15	172
97° 36' 19.07" W	35° 35' 59.12" N	Slater Brothers Construction Co.	1E629	RCP	Paving & Storm Sewer	24"	The Greens Sect. 8	OKLAHOMA	4052	T13N R4W S15	172
97° 39' 5.82" W	35° 36' 25.41" N	TJ Campbell Construction	PD-1761	RCP	Canyon Lakes 2nd Addition	30"	S of Memorial Road & E of Council Road	OKLAHOMA	3852	T13N R4W S17	170
97° 38' 59.65" W	35° 36' 11.16" N	TJ Campbell Construction	PD-1971	RCP	Canyon Lakes 3rd Addition	18"	S of Memorial Road & E of Council Road	OKLAHOMA	3852	T13N R4W S17	170
97° 38' 55.17" W	35° 36' 13.70" N	TJ Campbell Construction	PD-1761	RCP	Canyon Lakes 2nd Addition	18"	S of Memorial Road & E of Council Road	OKLAHOMA	3852	T13N R4W S17	170
97° 39' 3.78" W	35° 36' 18.46" N	TJ Campbell Construction	PD-1761	RCP	Canyon Lakes 2nd Addition	24"	S of Memorial Road & E of Council Road	OKLAHOMA	3852	T13N R4W S17	170
97° 39' 3.60" W	35° 36' 23.03" N	TJ Campbell Construction	PD-1761	RCP	Canyon Lakes 2nd Addition	30"	S of Memorial Road & E of Council Road	OKLAHOMA	3852	T13N R4W S17	170
97° 39' 0.99" W	35° 36' 14.66" N	TJ Campbell Construction	PD-1761	RCP	Canyon Lakes 2nd Addition	30"	12-31-06	OKLAHOMA	3852	T13N R4W S17	170
97° 38' 55.31" W	35° 36' 12.80" N	TJ Campbell Construction	PD-1971	RCP	Canyon Lakes 3rd Addition	18"	S of Memorial Road & E of Council Road	OKLAHOMA	3852	T13N R4W S17	170
97° 38' 54.63" W	35° 36' 13.08" N	TJ Campbell Construction	PD-1971	RCP	Canyon Lakes 3rd Addition	54"	S of Memorial Road & E of Council Road	OKLAHOMA	3852	T13N R4W S17	170
97° 38' 54.83" W	35° 36' 12.87" N	TJ Campbell Construction	PD-1971	RCP	Canyon Lakes 3rd Addition	24"	S of Memorial Road & E of Council Road	OKLAHOMA	3852	T13N R4W S17	170
97° 40' 19.76" W	35° 36' 26.58" N	Burns Paving	PD-1915	CON	The Grand	4'x6"	S of Memorial Road & E of County Line Rd	OKLAHOMA	3752	T13N R4W S18	169
97° 40' 21.20" W	35° 36' 25.48" N	Burns Paving	PD-1915	RCP	The Grand	36"	S of Memorial Road & E of County Line Rd	OKLAHOMA	3752	T13N R4W S18	169
97° 40' 22.46" W	35° 36' 19.62" N	Burns Paving	PD-1915	CON	The Grand	4'x6"	S of Memorial Road & E of County Line Rd	OKLAHOMA	3752	T13N R4W S18	169
97° 40' 17.96" W	35° 36' 23.10" N	Burns Paving	PD-1915	CON	The Grand	4'x6"	S of Memorial Road & E of County Line Rd	OKLAHOMA	3752	T13N R4W S18	169
97° 40' 24.01" W	35° 36' 15.13" N	Burns Paving	PD-1915	RCP	The Grand	24"	S of Memorial Road & E of County Line Rd	OKLAHOMA	3752	T13N R4W S18	169

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 40' 16.76" W	35° 36' 13.35" N	Burns Paving	PD-1915	CON	The Grand	4'x6"	S of Memorial Road & E of County Line Rd	OKLAHOMA	3752	T13N R4W S18	169
97° 40' 15.93" W	35° 36' 15.75" N	Burns Paving	PD-1915	CON	The Grand	4'x6"	S of Memorial Road & E of County Line Rd	OKLAHOMA	3752	T13N R4W S18	169
97° 40' 17.42" W	35° 36' 8.61" N	Burns Paving	PD-1915	CON	The Grand	4'x6"	S of Memorial Road & E of County Line Rd	OKLAHOMA	3752	T13N R4W S18	169
97° 40' 8.75" W	35° 35' 41.34" N			RCB				OKLAHOMA	3752	T13N R4W S18	169
97° 28' 31.10" W	35° 35' 39.72" N	Silver Star Construction	PD-1966	RCP	Bella Mira Subdivision Phase I	42"	N of NE 122nd St & E of Eastern Ave	OKLAHOMA	4851	T13N R3W S24	220
97° 32' 42.02" W	35° 35' 0.63" N		DC-0182					OKLAHOMA	4451	T13N R3W S20	216
97° 32' 33.32" W	35° 34' 57.65" N	Slayter Brothers	8E616	RCSP	Paving Plans Bel-Air Park Addition	66"	Bel-Air Park Addition	OKLAHOMA	4451	T13N R3W S20	216
97° 34' 49.84" W	35° 35' 28.82" N	Palm Paving	PD-0007	RCP	Quail Creek	36"	N. ½ of Section 24, T13N, R4W	OKLAHOMA	4251	T13N R4W S24	214
97° 34' 41.33" W	35° 35' 35.01" N	Palm Paving Co.	3E611	RCP	Paving Plans Quail Creek, Sec. #14	60"	Quail Creek, Sec. #14	OKLAHOMA	4251	T13N R4W S24	214
97° 34' 43.92" W	35° 35' 32.88" N	Palm Paving Co.	3E611	RCP	Paving Plans Quail Creek, Sec. #14	27"	Quail Creek, Sec. #14	OKLAHOMA	4251	T13N R4W S24	214
97° 34' 39.21" W	35° 35' 36.64" N	Palm Paving Co.	3E611	RCP	Paving Plans Quail Creek, Sec. #14	27"	Quail Creek, Sec. #14	OKLAHOMA	4251	T13N R4W S24	214
97° 34' 46.66" W	35° 35' 0.63" N	Southwest Paving Co.	14E628	RCP	Paving & Drainage Plans	27"	Springhollow	OKLAHOMA	4251	T13N R4W S24	214
97° 34' 48.05" W	35° 35' 3.70" N	Southwest Paving Co.	14E628	RCP	Paving & Drainage Plans	36"	Springhollow	OKLAHOMA	4251	T13N R4W S24	214
97° 34' 56.68" W	35° 35' 24.49" N	Palm Paving	PD-0007	CON	Quail Creek		N. ½ of Section 24, T13N, R4W	OKLAHOMA	4251	T13N R4W S24	214
97° 34' 54.38" W	35° 35' 27.35" N	Palm Paving	PD-0007	RCP	Quail Creek	18"	N. ½ of Section 24, T13N, R4W	OKLAHOMA	4251	T13N R4W S24	214
97° 34' 54.45" W	35° 35' 20.19" N							OKLAHOMA	4251	T13N R4W S24	214
97° 34' 22.76" W	35° 35' 40.02" N	Palm Paving Co.	5E609	RCP	Paving Plan Sec. 13 Quail Creek	24"	Quail Creek, Sec. 13	OKLAHOMA	4251	T13N R4W S24	214
97° 34' 52.58" W	35° 35' 14.28" N	Palm Paving Co.	PD-0468	RCP	Quail Creek	42"	E of Portland Avenue & N of Hefner Road	OKLAHOMA	4251	T13N R4W S24	214
97° 36' 37.83" W	35° 35' 35.40" N	Swatek Construction Co.	7E616	CGMP	Paving Plan The Arbors	36"	The Arbors	OKLAHOMA	4051	T13N R4W S22	212
97° 36' 38.02" W	35° 35' 40.25" N	Haskell Lemon Construction Co.	2E634	RCP	Bond Issue Street Project 628-01	48"	N.W. 122nd Street	OKLAHOMA	4051	T13N R4W S22	212
97° 36' 42.64" W	35° 35' 34.20" N	TJ Campbell Construction	PD-1308	RCPA	Glenhurst Section 1	26"X43"	S of NW 122nd St & E of MacArthur Blvd	OKLAHOMA	4051	T13N R4W S22	212
97° 36' 42.01" W	35° 35' 28.56" N	T.J. Campbell Construction	PD-1445	RCP	Glenhurst Section 3	48"	S of NW 122nd St & E of MacArthur Blvd	OKLAHOMA	4051	T13N R4W S22	212

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 36' 44.41" W	35° 35' 19.31" N	Atlas Paving Company	PD-1690	RCP	Glenhurst Section 5	24"	S of NW 122nd St & E of N MacArthur Blvd	OKLAHOMA	4051	T13N R4W S22	212
97° 36' 35.98" W	35° 34' 51.01" N							OKLAHOMA	4051	T13N R4W S22	212
97° 39' 24.32" W	35° 35' 32.83" N	n/a	PD-0029	RCP	Willow Creek Estates Addition No.6	24"	Ne ¼, Sec.19, T13N, R4W	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 23.11" W	35° 35' 36.32" N	N/A	DD-0568	RCP	Dollar General Store	24"	S of NW 122nd St & W Council Road	OKLAHOMA	3751	T13N R4W S19	209
97° 40' 22.69" W	35° 35' 38.33" N	Atlas Paving Co.	PD-1389	RCP	Willow Bend Section VI	30"	S of NW 122nd St & E of County Line Road	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 32.40" W	35° 35' 28.82" N	n/a	PD-0029	RCP	Willow Creek Estates Addition No.6	18"	Ne ¼, Sec.19, T13N, R4W	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 33.14" W	35° 35' 23.27" N	Slater Brothers Construction Co.	10E613	RCP	Paving Plans Willow Creek Estates	30"	Willow Creek Estates	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 27.12" W	35° 35' 29.70" N	Slater Brothers Construction Co.	10E613	Concrete	Paving Plans Willow Creek Estates	4' X 6"	Willow Creek Estates	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 24.65" W	35° 35' 30.03" N	Slater Brothers Construction Co.	10E613	RCP	Paving Plans Willow Creek Estates		Willow Creek Estates	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 28.10" W	35° 35' 16.24" N	Slater Brothers Construction Co.	10E613	RCP	Paving Plans Willow Creek Estates	24"	Willow Creek Estates	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 28.87" W	35° 35' 13.78" N	Atlas Paving Co.	PD-0022	RCP	Windmill Estates	30"	SE ¼, Sec.19, T13N, R4W	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 32.69" W	35° 35' 3.84" N	Atlas Paving Co.	PD-0022	RCP	Windmill Estates	18"		OKLAHOMA	3751	T13N R4W S19	209
97° 39' 29.86" W	35° 35' 9.88" N	Atlas Paving Co.	PD-0022	RCP	Windmill Estates	24"	SE ¼, Sec.19, T13N, R4W	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 32.62" W	35° 34' 58.90" N	Atlas Paving Co.	PD-0022	RCP	Windmill Estates	48"		OKLAHOMA	3751	T13N R4W S19	209
97° 39' 38.44" W	35° 34' 53.30" N	Atlas Paving Co.	PD-0022		Windmill Estates		SE ¼, Sec.19, T13N, R4W	OKLAHOMA	3751	T13N R4W S19	209
97° 39' 34.95" W	35° 35' 0.25" N	Southwest Paving Co.	6E634	RPC	Eagle Ridge Paving & Drainage	30"	Eagle Ridge	OKLAHOMA	3751	T13N R4W S19	209
97° 26' 30.35" W	35° 34' 42.47" N							OKLAHOMA	5050	T13N R2W S29	262
97° 30' 45.22" W	35° 34' 37.68" N							OKLAHOMA	4650	T13N R3W S27	258
97° 30' 45.24" W	35° 34' 39.04" N							OKLAHOMA	4650	T13N R3W S27	258
97° 31' 18.14" W	35° 34' 13.92" N			RCP				OKLAHOMA	4550	T13N R3W S28	257
97° 30' 55.61" W	35° 34' 28.93" N	ML Young Construction	PD-1381	Concrete	Sabolich Building Site	4'X6"	S of Hefner Road & W of Britton Road	OKLAHOMA	4550	T13N R3W S28	257
97° 32' 25.12" W	35° 34' 33.24" N							OKLAHOMA	4450	T13N R3W S29	256

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 37' 21.33" W	35° 34' 36.45" N	Palm Construction Co.	3E616		Paving Plan Ski Island Lake	5' X 2'	Ski Island	OKLAHOMA	3950	T13N R4W S28	251
97° 37' 21.39" W	35° 34' 43.42" N	Palm Construction Co.	3E616	Concrete	Paving Plan Ski Island Lake	3' X 6"	Ski Island	OKLAHOMA	3950	T13N R4W S28	251
97° 37' 26.81" W	35° 34' 22.19" N		17E634	RCP	Sherwood Estates Paving Plans	30"	Sherwood Estates	OKLAHOMA	3950	T13N R4W S28	251
97° 37' 39.14" W	35° 34' 45.39" N	Steelman Construction Co.	1E616	RCP	Paving Plan Ski Island Lake	24"	Ski Island	OKLAHOMA	3950	T13N R4W S28	251
97° 37' 36.02" W	35° 34' 44.00" N	Steelman Construction Co.	1E616	RCP	Paving Plan Ski Island Lake	24"	Ski Island	OKLAHOMA	3950	T13N R4W S28	251
97° 37' 28.54" W	35° 34' 39.53" N	Steelman Construction Co.	4E616	Concrete	Paving Plan Ski Island Lake	3' bottom	Ski Island	OKLAHOMA	3950	T13N R4W S28	251
97° 37' 32.77" W	35° 34' 38.21" N	Steelman Construction Co.	1E616	RCP	Paving Plan Ski Island Lake	30"	Ski Island	OKLAHOMA	3950	T13N R4W S28	251
97° 37' 39.36" W	35° 34' 36.10" N	Steelman Construction Co.	1E616	RCP	Paving Plan Ski Island Lake	36"	Ski Island	OKLAHOMA	3950	T13N R4W S28	251
97° 37' 30.17" W	35° 34' 0.64" N		EXISTING	RCP		15"		OKLAHOMA	3950	T13N R4W S28	251
97° 39' 41.09" W	35° 34' 46.61" N	Slayter Brothers Construction	PD-0260	RCP	Harvest Hills Section 5	42"	NW 107th St & Prairie Lane	OKLAHOMA	3750	T13N R4W S30	249
97° 39' 41.15" W	35° 34' 41.42" N	Slayter Brothers Construction	PD-0260	RCP	Harvest Hills Section 5	36"	NW 107th St & Prairie Lane	OKLAHOMA	3750	T13N R4W S30	249
97° 39' 54.76" W	35° 34' 28.63" N	Atlas Paving Company	PD-1337	RCP	Westcliffe Section 2	24"	S of Hefner Road & E of County Line Road	OKLAHOMA	3750	T13N R4W S30	249
97° 39' 46.27" W	35° 34' 34.82" N	Triple A Construction Co.	9E615	RCP	Paving Plans Harvest Hills Add., Sec. Two	48"	Harvest Hills Add.	OKLAHOMA	3750	T13N R4W S30	249
97° 39' 46.73" W	35° 34' 34.52" N	Triple A Construction Co.	9E615	RCP	Paving Plans Harvest Hills Add., Sec. Two	48"	Harvest Hills Add.	OKLAHOMA	3750	T13N R4W S30	249
97° 39' 54.21" W	35° 34' 25.16" N	Triple “A” Construction	15E616	Grass	Harvest Hills Add., Sec. 1 Paving Plans		Harvest Hills	OKLAHOMA	3750	T13N R4W S30	249
97° 40' 51.08" W	35° 34' 2.04" N	TJ Campbell Construction	PD-1836	RCP	Russellville Addition	36"	N of Britton Road & W of County Line Road		3650	T13N R5W S25	248
97° 40' 51.40" W	35° 33' 58.86" N	TJ Campbell Construction	PD-1836	CON	Russellville Addition	4'x6"	N of Britton Road & W of County Line Road		3650	T13N R5W S25	248
97° 40' 52.36" W	35° 34' 7.51" N	TJ Campbell Construction	PD-1836	CON	Russellville Addition	5'x6"	N of Britton Road & W of County Line Road		3650	T13N R5W S25	248
97° 40' 51.13" W	35° 34' 11.12" N	TJ Campbell Construction	PD-1836	CON	Russellville Addition	4'x6"	N of Britton Road & W of County Line Road		3650	T13N R5W S25	248
97° 40' 51.13" W	35° 34' 11.12" N	TJ Campbell Construction	PD-1836	CON	Russellville Addition	4'x6"	N of Britton Road & W of County Line Road		3650	T13N R5W S25	248
97° 40' 48.88" W	35° 34' 10.18" N	TJ Campbell Construction	PD-1836	CON	Russellville Addition	5'x6"	N of Britton Road & W of County Line Road		3650	T13N R5W S25	248
97° 29' 43.15" W	35° 33' 11.97" N							OKLAHOMA	4749	T13N R3W S35	299

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 29' 55.63" W	35° 33' 32.13" N							OKLAHOMA	4649	T13N R3W S34	298
97° 29' 45.72" W	35° 33' 26.54" N	Hughes Engineering Co.	30E607	RCP	Paving for Musgrave's Gold Medal Addition	30"	Musgrave's Gold Medal Addition	OKLAHOMA	4649	T13N R3W S34	298
97° 29' 45.74" W	35° 33' 26.31" N	Hughes Engineering Co.	30E607	RCP	Paving for Musgrave's Gold Medal Addition	24"	Musgrave's Gold Medal Addition	OKLAHOMA	4649	T13N R3W S34	298
97° 29' 48.56" W	35° 33' 27.60" N	TJ Campbell Construction	PD-1877	RCPE	Hope Crossing II	29"x45"	N of Wilshire Blvd & W of Kelley Ave	OKLAHOMA	4649	T13N R3W S34	298
97° 34' 18.71" W	35° 33' 40.40" N	Metropolitan Construction Co.	13E120	RCP	Paving Plans	42"	Lakehurst	OKLAHOMA	4249	T13N R4W S36	294
97° 34' 18.25" W	35° 33' 19.51" N	City of Oklahoma City	17E605		Paving Plans – Lakehurst	24"	Lakehurst	OKLAHOMA	4249	T13N R4W S36	294
97° 34' 18.48" W	35° 33' 12.79" N	Atlas Paving Co.	15E605	RCP	Paving Plans – Lakehurst	36"	Lakehurst	OKLAHOMA	4249	T13N R4W S36	294
97° 34' 18.77" W	35° 33' 28.51" N							OKLAHOMA	4249	T13N R4W S36	294
97° 35' 49.97" W	35° 33' 7.70" N							OKLAHOMA	4149	T13N R4W S35	293
97° 37' 21.82" W	35° 33' 29.18" N		51E602	RCP	Paving Windsor Lakes Add.	36"	Windsor Lakes Add.	OKLAHOMA	3949	T13N R4W S33	291
97° 37' 24.98" W	35° 33' 43.15" N	Slayter Brothers Construction Co., Inc.	16E618	Concrete	Paving Plans Lansbrook Section 6	5'	Lansbrook Section 6	OKLAHOMA	3949	T13N R4W S33	291
97° 37' 20.47" W	35° 33' 23.95" N		ST-526	RCP				OKLAHOMA	3949	T13N R4W S33	291
97° 37' 18.63" W	35° 33' 17.59" N		51E602	RCP	Paving Windsor Lakes Add.	24"	Windsor Lakes Add.	OKLAHOMA	3949	T13N R4W S33	291
97° 37' 20.49" W	35° 33' 21.77" N		DC-0075	RCP				OKLAHOMA	3949	T13N R4W S33	291
97° 37' 25.57" W	35° 33' 29.19" N		51E602	RCP	Paving Windsor Lakes Add.	30"	Windsor Lakes Add.	OKLAHOMA	3949	T13N R4W S33	291
97° 37' 23.34" W	35° 33' 26.05" N		51E602	RCP	Paving Windsor Lakes Add.	30"	Windsor Lakes Add.	OKLAHOMA	3949	T13N R4W S33	291
97° 37' 20.15" W	35° 33' 17.04" N		51E602	RCP	Paving Windsor Lakes Add.	0.5%	Windsor Lakes Add.	OKLAHOMA	3949	T13N R4W S33	291
97° 37' 20.00" W	35° 33' 14.91" N							OKLAHOMA	3949	T13N R4W S33	291
97° 37' 23.68" W	35° 33' 26.46" N							OKLAHOMA	3949	T13N R4W S33	291
97° 37' 37.55" W	35° 33' 9.49" N			CGMPA				OKLAHOMA	3949	T13N R4W S33	291
97° 38' 2.31" W	35° 33' 15.04" N	Bishop Paving	PD-1556	CON	Commerce Pointe on Rockwell	4'x6"	N of Wilshire Blvd & E of Rockwell Ave	OKLAHOMA	3949	T13N R4W S33	291
97° 38' 10.71" W	35° 33' 16.65" N	Bishop Paving	PD-1556	RCP	Commerce Pointe on Rockwell	24"	N of Wilshire Blvd & E of Rockwell Ave	OKLAHOMA	3949	T13N R4W S33	291

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 38' 50.39" W	35° 33' 4.21" N			CGMP		2-18"		OKLAHOMA	3849	T13N R4W S32	290
97° 40' 32.77" W	35° 33' 38.89" N	Burns Paving Company	PD-1863	RCB	Pikes Pointe	6'x4'	S of Britton Road & W of County Line Road		3649	T13N R5W S36	288
97° 40' 31.79" W	35° 33' 38.57" N	Burns Paving Company	PD-1863	RCP	Pikes Pointe	30"	S of Britton Road & W of County Line Road		3649	T13N R5W S36	288
97° 40' 29.82" W	35° 33' 39.20" N	Burns Paving Company	PD-1863	RCP	Pikes Pointe	24"	S of Britton Road & W of County Line Road		3649	T13N R5W S36	288
97° 33' 24.85" W	35° 32' 24.71" N		DC-0019 & SC-01	RCB	Flood Control and Sanitary Sewer Improvements	12' x 4'	East of N May Ave & North of NW 63rd St	OKLAHOMA	4348	T12N R3W S6	335
97° 34' 31.23" W	35° 32' 58.36" N		34E605	RCP	Paving Plans Wilshire Estates	24"	Elmwood Avenue	OKLAHOMA	4248	T12N R4W S1	334
97° 34' 19.13" W	35° 32' 53.67" N		34E606	RCP	Paving Plans Wilshire Estates	30"	Elmwood Avenue	OKLAHOMA	4248	T12N R4W S1	334
97° 35' 50.78" W	35° 32' 57.05" N							OKLAHOMA	4148	T12N R4W S2	333
97° 27' 40.96" W	35° 31' 52.16" N							OKLAHOMA	4847	T12N R3W S12	380
97° 29' 5.34" W	35° 32' 4.12" N							OKLAHOMA	4747	T12N R3W S11	379
97° 29' 24.74" W	35° 32' 5.95" N		DC-0167	RCP		42"		OKLAHOMA	4747	T12N R3W S11	379
97° 29' 37.74" W	35° 32' 3.63" N							OKLAHOMA	4747	T12N R3W S11	379
97° 29' 37.06" W	35° 32' 3.73" N							OKLAHOMA	4747	T12N R3W S11	379
97° 28' 36.97" W	35° 32' 6.14" N							OKLAHOMA	4747	T12N R3W S11	379
97° 29' 4.42" W	35° 31' 58.95" N							OKLAHOMA	4747	T12N R3W S11	379
97° 28' 54.96" W	35° 31' 57.55" N	N/A	PD-0978	RCB	Cinemark USA	6X3	S of NE 63rd St & W of MLK Blvd.	OKLAHOMA	4747	T12N R3W S11	379
97° 29' 39.05" W	35° 31' 20.69" N			RCP		30"		OKLAHOMA	4747	T12N R3W S11	379
97° 30' 2.34" W	35° 31' 48.82" N			RCP				OKLAHOMA	4647	T12N R3W S10	378
97° 29' 40.85" W	35° 32' 2.27" N			RCP				OKLAHOMA	4647	T12N R3W S10	378
97° 29' 57.62" W	35° 31' 50.41" N			RCP				OKLAHOMA	4647	T12N R3W S10	378
97° 29' 43.51" W	35° 32' 1.46" N			RCP				OKLAHOMA	4647	T12N R3W S10	378
97° 29' 49.77" W	35° 31' 55.65" N			RCP				OKLAHOMA	4647	T12N R3W S10	378

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 29' 53.39" W	35° 31' 53.40" N			RCP				OKLAHOMA	4647	T12N R3W S10	378
97° 30' 33.80" W	35° 31' 44.87" N			RCP				OKLAHOMA	4647	T12N R3W S10	378
97° 30' 28.04" W	35° 31' 39.30" N	H&H Plumbing	DD-0562	RCP	The Lincoln at Central Park	42"	N of N.E 50th St. & E of Santa Fe Ave.	OKLAHOMA	4647	T12N R3W S10	378
97° 30' 23.84" W	35° 31' 40.05" N	C Watts	PD-0460	CGMP	Central Park One	54"	N of NE 50th St & E of Santa Fe Avenue	OKLAHOMA	4647	T12N R3W S10	378
97° 31' 39.12" W	35° 32' 2.06" N							OKLAHOMA	4547	T12N R3W S9	377
97° 31' 11.92" W	35° 32' 11.49" N							OKLAHOMA	4547	T12N R3W S9	377
97° 31' 13.08" W	35° 31' 54.74" N	Cimarron Construction	PV-0081	RCB	Chesapeake Energy East Campus	8'x4'	N of I-44 & E of Shartel	OKLAHOMA	4547	T12N R3W S9	377
97° 30' 55.20" W	35° 31' 39.86" N							OKLAHOMA	4547	T12N R3W S9	377
97° 31' 31.88" W	35° 31' 40.03" N			RCB				OKLAHOMA	4547	T12N R3W S9	377
97° 31' 12.50" W	35° 31' 36.92" N			RCP				OKLAHOMA	4547	T12N R3W S9	377
97° 31' 20.53" W	35° 31' 34.87" N			RCP				OKLAHOMA	4547	T12N R3W S9	377
97° 31' 36.38" W	35° 31' 37.17" N			RCP				OKLAHOMA	4547	T12N R3W S9	377
97° 31' 18.74" W	35° 31' 35.11" N	H.E. Chase, City Engineer	74E94	RCP	Plan & Profile	2-18"	Wileman Addition	OKLAHOMA	4547	T12N R3W S9	377
97° 31' 13.61" W	35° 31' 36.02" N	H.E. Chase, City Engineer	74E94	RCP	Plan & Profile	2-24"	Wileman Addition	OKLAHOMA	4547	T12N R3W S9	377
97° 31' 45.94" W	35° 31' 39.34" N		7E203	CMP		13'-10"X27'-3"		OKLAHOMA	4547	T12N R3W S9	377
97° 31' 46.40" W	35° 31' 40.14" N			RCB				OKLAHOMA	4547	T12N R3W S9	377
97° 31' 1.65" W	35° 31' 20.99" N							OKLAHOMA	4547	T12N R3W S9	377
97° 32' 49.97" W	35° 31' 45.21" N			RCB				OKLAHOMA	4447	T12N R3W S8	376
97° 31' 56.85" W	35° 31' 38.61" N			RCP				OKLAHOMA	4447	T12N R3W S8	376
97° 32' 32.54" W	35° 31' 39.30" N	H.F. Hulett, Jr. Professional Engineer	76E80	RCP	Paving Plans, Profiles & Estimates for Wileman 8th Addition	24"	W1/2, Sec. 8, T-12-Nm R-3-W. I.M.	OKLAHOMA	4447	T12N R3W S8	376
97° 32' 38.42" W	35° 31' 40.55" N	H.F. Hulett, Jr. Professional Engineer	76E80	RCP	Paving Plans, Profiles & Estimates for Wileman 8th Addition	30"	W1/2, Sec. 8, T-12-Nm R-3-W. I.M.	OKLAHOMA	4447	T12N R3W S8	376
97° 32' 45.44" W	35° 31' 41.32" N							OKLAHOMA	4447	T12N R3W S8	376

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 32' 30.13" W	35° 31' 36.20" N		DD-0442					OKLAHOMA	4447	T12N R3W S8	376
97° 32' 7.37" W	35° 31' 35.75" N	Silver Star Construction	PD-1069	RCP	Belle Isle Boulevard	48"	N of NW 50th St & W of Western Ave	OKLAHOMA	4447	T12N R3W S8	376
97° 31' 47.76" W	35° 31' 39.59" N							OKLAHOMA	4447	T12N R3W S8	376
97° 32' 57.21" W	35° 31' 48.02" N	Mark Halloway Co.	33E107	RCP	Paving Plans	1.00%	Wileman Sixth Addition	OKLAHOMA	4347	T12N R3W S7	375
97° 33' 11.17" W	35° 31' 59.14" N							OKLAHOMA	4347	T12N R3W S7	375
97° 32' 56.35" W	35° 31' 42.80" N	Mark Halloway Co.	33E107	RCP	Paving Plans	24	Wileman Sixth Addition	OKLAHOMA	4347	T12N R3W S7	375
97° 32' 56.38" W	35° 31' 42.85" N	Mark Halloway Co.	33E107	RCP	Paving Plans	1.00%	Wileman Sixth Addition	OKLAHOMA	4347	T12N R3W S7	375
97° 33' 1.50" W	35° 31' 41.24" N	Mark Holloway Construction	33E110	RCP	Paving	18"	Wileman Fifth Addition	OKLAHOMA	4347	T12N R3W S7	375
97° 32' 51.43" W	35° 31' 51.14" N	Harry F. Hulett, Jr. Engineer	37E110	RCP	Paving Plans	15"	Wileman Seventh Addition	OKLAHOMA	4347	T12N R3W S7	375
97° 33' 14.64" W	35° 32' 11.73" N		4E610	Concrete	County Highway, N.W. 63rd Street	4'	N.W. 63rd Street	OKLAHOMA	4347	T12N R3W S7	375
97° 32' 59.25" W	35° 31' 54.06" N	Republic Paving	DC-0014	RCB	Drainage Improvements NW 59th St & West of Barnes Ave	6'x 4'	S of NW 63rd Street and W of Pennsylvania Ave	OKLAHOMA	4347	T12N R3W S7	375
97° 32' 52.41" W	35° 31' 53.25" N	Harry F. Hulett, Jr. Engineer	37E110	RCP	Paving Plans	15"	Wileman Seventh Addition	OKLAHOMA	4347	T12N R3W S7	375
97° 25' 27.82" W	35° 30' 28.52" N			RCP				OKLAHOMA	5046	T12N R2W S17	422
97° 29' 37.66" W	35° 31' 19.58" N			RCP				OKLAHOMA	4746	T12N R3W S14	419
97° 29' 39.16" W	35° 31' 1.61" N			CMP		30"		OKLAHOMA	4746	T12N R3W S14	419
97° 29' 37.79" W	35° 30' 53.63" N							OKLAHOMA	4746	T12N R3W S14	419
97° 28' 44.23" W	35° 30' 42.61" N							OKLAHOMA	4746	T12N R3W S14	419
97° 28' 42.15" W	35° 30' 41.78" N							OKLAHOMA	4746	T12N R3W S14	419
97° 28' 36.74" W	35° 30' 41.59" N							OKLAHOMA	4746	T12N R3W S14	419
97° 29' 39.93" W	35° 31' 19.62" N			RCP				OKLAHOMA	4646	T12N R3W S15	418
97° 29' 45.25" W	35° 30' 28.18" N	Metropolitan Construction Co.	56E602	RCB	Pavement N. 36th Street	10 x 10	N. 36th Street	OKLAHOMA	4646	T12N R3W S15	418
97° 31' 6.27" W	35° 31' 1.38" N	Marvel Engineering Co.	82"B"E99	RCP	Paving	24"	Edgemere Terrace Add.	OKLAHOMA	4546	T12N R3W S16	417

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 31' 3.77" W	35° 30' 52.86" N		18E114	RCP		24"		OKLAHOMA	4546	T12N R3W S16	417
97° 31' 6.93" W	35° 31' 10.19" N	Marvel Engineering Co.	82”B”E99	RCP	Paving	24"	Edgemere Terrace Add.	OKLAHOMA	4546	T12N R3W S16	417
97° 31' 7.36" W	35° 31' 11.72" N	Marvel Engineering Co.	82”B”E99	RCP	Paving	24"	Edgemere Terrace Add.	OKLAHOMA	4546	T12N R3W S16	417
97° 31' 0.00" W	35° 30' 54.62" N							OKLAHOMA	4546	T12N R3W S16	417
97° 31' 2.33" W	35° 30' 31.03" N							OKLAHOMA	4546	T12N R3W S16	417
97° 41' 12.90" W	35° 30' 46.61" N	Connelly Paving Co.	PD-0115	RCP	Stonebridge Lake Estates Blocks 1-4	30"			3646	T12N R5W S13	408
97° 41' 12.38" W	35° 30' 49.47" N	Connelly Paving Co.	PD-0115	RCP	Stonebridge Lake Estates Blocks 1-4	36"			3646	T12N R5W S13	408
97° 41' 26.25" W	35° 30' 50.25" N								3546	T12N R5W S14	407
97° 41' 32.06" W	35° 30' 50.27" N								3546	T12N R5W S14	407
97° 41' 29.77" W	35° 30' 47.65" N								3546	T12N R5W S14	407
97° 41' 24.42" W	35° 30' 48.27" N								3546	T12N R5W S14	407
97° 29' 17.11" W	35° 30' 1.83" N			RCP		36"		OKLAHOMA	4745	T12N R3W S23	459
97° 29' 3.83" W	35° 30' 15.34" N	Metropolitan Paving Co.	79E91	RCP	Plan & Profile	36"	Park Estates 12th Addition	OKLAHOMA	4745	T12N R3W S23	459
97° 29' 10.68" W	35° 30' 11.25" N	W.W. Baker, City Engineer	6E109	RCP	Paving Plans	18"	Park Estates 3rd Addition	OKLAHOMA	4745	T12N R3W S23	459
97° 29' 7.54" W	35° 30' 11.83" N	Atlas Paving	2E118	RCB	Plans & Profiles	6' x 12'	N. Prospect Avenue	OKLAHOMA	4745	T12N R3W S23	459
97° 28' 56.30" W	35° 30' 27.39" N	Metropolitan Construction Co.	56E602	RCP	Pavement N. 36th Street	30"	N. 36th Street	OKLAHOMA	4745	T12N R3W S23	459
97° 29' 11.65" W	35° 30' 7.58" N	Atlas Paving Co.	28E112	RCP	Paving Plans	18"	Park Estates 15th Addition	OKLAHOMA	4745	T12N R3W S23	459
97° 29' 15.85" W	35° 30' 4.33" N			RCP		36"		OKLAHOMA	4745	T12N R3W S23	459
97° 29' 24.97" W	35° 30' 1.58" N		30E98	RCP	Storm Sewer Improvements Contract #3	33"	Contract #3, Line 24	OKLAHOMA	4745	T12N R3W S23	459
97° 29' 19.86" W	35° 29' 52.43" N		16E202	RCP		24"		OKLAHOMA	4745	T12N R3W S23	459
97° 29' 30.58" W	35° 29' 48.72" N			RCP				OKLAHOMA	4745	T12N R3W S23	459
97° 31' 8.84" W	35° 30' 14.88" N			RCP		18"		OKLAHOMA	4545	T12N R3W S21	457

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 31' 6.73" W	35° 30' 20.78" N			RCP		18"		OKLAHOMA	4545	T12N R3W S21	457
97° 31' 9.69" W	35° 30' 12.28" N			RCP				OKLAHOMA	4545	T12N R3W S21	457
97° 31' 7.85" W	35° 30' 27.04" N							OKLAHOMA	4545	T12N R3W S21	457
97° 31' 7.40" W	35° 30' 17.67" N							OKLAHOMA	4545	T12N R3W S21	457
97° 31' 9.16" W	35° 30' 11.43" N			RCB				OKLAHOMA	4545	T12N R3W S21	457
97° 31' 9.35" W	35° 30' 11.34" N			RCB				OKLAHOMA	4545	T12N R3W S21	457
97° 31' 5.76" W	35° 30' 20.41" N			RCP		18"		OKLAHOMA	4545	T12N R3W S21	457
97° 31' 7.45" W	35° 30' 25.35" N			RCP				OKLAHOMA	4545	T12N R3W S21	457
97° 39' 59.39" W	35° 30' 10.32" N			RCP				OKLAHOMA	3745	T12N R4W S19	449
97° 39' 55.45" W	35° 30' 9.09" N			RCP				OKLAHOMA	3745	T12N R4W S19	449
97° 39' 58.59" W	35° 30' 1.56" N			RCP				OKLAHOMA	3745	T12N R4W S19	449
97° 42' 1.74" W	35° 30' 27.94" N			RCP					3545	T12N R5W S23	447
97° 41' 59.39" W	35° 30' 27.77" N	TJ Campbell Construction	PD-1969	RCP	Corinthians Court Section 2	18"	S of NW 36th St & E of Sara Road		3545	T12N R5W S23	447
97° 41' 54.18" W	35° 30' 21.99" N	TJ Campbell Construction	PD-1969	CON	Corinthians Court Section 2	7'x8"	S of NW 36th St & E of Sara Road		3545	T12N R5W S23	447
97° 39' 55.78" W	35° 29' 35.51" N							OKLAHOMA	3744	T12N R4W S30	489
97° 39' 55.68" W	35° 29' 7.15" N			RCP				OKLAHOMA	3744	T12N R4W S30	489
97° 39' 48.39" W	35° 28' 44.15" N					54"		OKLAHOMA	3744	T12N R4W S30	489
97° 40' 7.06" W	35° 29' 3.65" N							OKLAHOMA	3744	T12N R4W S30	489
97° 40' 49.23" W	35° 28' 59.12" N	Atlas Paving Co.	PD-1006	RCP	Life Style Addition	36"	N of NW 10th St & E of Morgan Road		3644	T12N R5W S25	488
97° 40' 56.71" W	35° 29' 0.69" N	Atlas Paving Co.	PD-1006	RCP	Life Style Addition	30"	N of NW 10th St & E of Morgan Road		3644	T12N R5W S25	488
97° 41' 5.43" W	35° 29' 7.04" N	Atlas Paving Co.	PD-1006	RCP	Life Style Addition	72"	N of NW 10th St & E of Morgan Road		3644	T12N R5W S25	488
97° 42' 23.73" W	35° 29' 3.06" N								3544	T12N R5W S26	487

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 42' 21.21" W	35° 29' 3.31" N			RCP					3544	T12N R5W S26	487
97° 41' 55.35" W	35° 29' 9.75" N			RCP					3544	T12N R5W S26	487
97° 42' 1.59" W	35° 29' 9.79" N			RCP					3544	T12N R5W S26	487
97° 42' 12.64" W	35° 29' 4.10" N			RCP					3544	T12N R5W S26	487
97° 42' 16.33" W	35° 29' 3.31" N			RCP					3544	T12N R5W S26	487
97° 42' 9.28" W	35° 29' 6.50" N			RCP					3544	T12N R5W S26	487
97° 42' 10.39" W	35° 29' 5.65" N			RCP					3544	T12N R5W S26	487
97° 43' 26.89" W	35° 29' 20.63" N			RCB					3444	T12N R5W S27	486
97° 43' 29.43" W	35° 29' 27.69" N								3344	T12N R5W S33	485
97° 27' 52.25" W	35° 28' 0.13" N							OKLAHOMA	4843	T12N R3W S36	540
97° 28' 6.86" W	35° 27' 53.65" N							OKLAHOMA	4843	T12N R3W S36	540
97° 28' 3.78" W	35° 27' 55.44" N							OKLAHOMA	4843	T12N R3W S36	540
97° 39' 48.62" W	35° 28' 38.58" N	M.H. Burton Construction Co.	20E628	CGMP	Paving & Storm Sewer	36"	Westwood Heights, Sec. 2	OKLAHOMA	3743	T12N R4W S31	529
97° 40' 16.55" W	35° 27' 51.55" N							OKLAHOMA	3743	T12N R4W S31	529
97° 40' 20.67" W	35° 28' 12.49" N								3643	T12N R5W S36	528
97° 27' 34.10" W	35° 27' 44.84" N							OKLAHOMA	4842	T11N R3W S1	580
97° 29' 19.99" W	35° 27' 38.79" N							OKLAHOMA	4742	T11N R3W S2	579
97° 28' 42.90" W	35° 27' 44.37" N							OKLAHOMA	4742	T11N R3W S2	579
97° 29' 18.02" W	35° 27' 12.31" N							OKLAHOMA	4742	T11N R3W S2	579
97° 29' 32.56" W	35° 27' 36.81" N							OKLAHOMA	4742	T11N R3W S2	579
97° 30' 23.60" W	35° 27' 23.84" N							OKLAHOMA	4642	T11N R3W S3	578
97° 29' 56.66" W	35° 27' 30.29" N		33E98	RCP	Storm Sewer Improvements Contract #2	36"	Contract #3, Line 64	OKLAHOMA	4642	T11N R3W S3	578

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 29' 40.77" W	35° 27' 17.74" N							OKLAHOMA	4642	T11N R3W S3	578
97° 30' 30.36" W	35° 26' 59.51" N			RCP		30"		OKLAHOMA	4642	T11N R3W S3	578
97° 29' 50.43" W	35° 27' 43.59" N							OKLAHOMA	4642	T11N R3W S3	578
97° 30' 28.73" W	35° 27' 18.69" N							OKLAHOMA	4642	T11N R3W S3	578
97° 31' 24.55" W	35° 27' 10.62" N		39E98	RCB				OKLAHOMA	4542	T11N R3W S4	577
97° 31' 53.35" W	35° 27' 26.57" N		36E84	RCB				OKLAHOMA	4442	T11N R3W S5	576
97° 32' 12.82" W	35° 27' 30.98" N		5E83	RCP				OKLAHOMA	4442	T11N R3W S5	576
97° 32' 16.89" W	35° 27' 27.84" N		5E83	RCP				OKLAHOMA	4442	T11N R3W S5	576
97° 32' 18.59" W	35° 27' 28.71" N			RCP				OKLAHOMA	4442	T11N R3W S5	576
97° 31' 50.68" W	35° 27' 24.02" N							OKLAHOMA	4442	T11N R3W S5	576
97° 32' 18.60" W	35° 27' 40.68" N		25E120	RCP				OKLAHOMA	4442	T11N R3W S5	576
97° 33' 35.30" W	35° 27' 37.05" N			RCB				OKLAHOMA	4342	T11N R3W S6	575
97° 33' 43.99" W	35° 27' 32.57" N							OKLAHOMA	4342	T11N R3W S6	575
97° 33' 54.03" W	35° 27' 31.06" N	Concho Co.	DC-0018	RCP	Storm Sewer Facility Improvements	72"	East of S May Ave & General Pershing to S May & North Canadian River	OKLAHOMA	4342	T11N R3W S6	575
97° 33' 18.35" W	35° 27' 23.66" N		33E98	RCP	Storm Sewer Improvements Contract #2	24"	Contract #3, Line 65	OKLAHOMA	4342	T11N R3W S6	575
97° 33' 36.79" W	35° 27' 27.96" N							OKLAHOMA	4342	T11N R3W S6	575
97° 34' 29.73" W	35° 27' 16.68" N			RCP				OKLAHOMA	4242	T11N R4W S1	574
97° 34' 8.03" W	35° 27' 28.11" N							OKLAHOMA	4242	T11N R4W S1	574
97° 34' 22.33" W	35° 27' 17.18" N							OKLAHOMA	4242	T11N R4W S1	574
97° 34' 4.32" W	35° 27' 24.97" N	Metropolitan	17E118	RCP	Plans & Profiles	36"	S.W. 9th Street	OKLAHOMA	4242	T11N R4W S1	574
97° 34' 44.30" W	35° 27' 2.33" N							OKLAHOMA	4242	T11N R4W S1	574
97° 34' 50.17" W	35° 27' 8.76" N							OKLAHOMA	4242	T11N R4W S1	574

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 34' 12.86" W	35° 27' 5.88" N							OKLAHOMA	4242	T11N R4W S1	574
97° 36' 11.11" W	35° 27' 0.57" N			RCP		36"		OKLAHOMA	4042	T11N R4W S3	572
97° 38' 42.42" W	35° 27' 36.41" N			RCP				OKLAHOMA	3842	T11N R4W S5	570
97° 40' 5.19" W	35° 27' 47.77" N	Harry F Hulett JR	PD-0203	RCP	Alliance Industrial Park	54"	SW 2nd St & Alliance Blvd	OKLAHOMA	3742	T11N R4W S6	569
97° 27' 50.63" W	35° 26' 58.84" N	R.R. Tway, Inc.	2E633	RCP	RDWY. On S.E. 15th Street	24"	S.E. 15th Street	OKLAHOMA	4841	T11N R3W S12	620
97° 30' 32.51" W	35° 26' 45.16" N			RCB				OKLAHOMA	4641	T11N R3W S10	618
97° 30' 38.33" W	35° 26' 29.66" N			RCP		18"		OKLAHOMA	4641	T11N R3W S10	618
97° 30' 38.31" W	35° 26' 29.07" N			RCP		24"		OKLAHOMA	4641	T11N R3W S10	618
97° 30' 43.69" W	35° 26' 21.84" N							OKLAHOMA	4641	T11N R3W S10	618
97° 30' 42.21" W	35° 26' 20.83" N			RCP				OKLAHOMA	4641	T11N R3W S10	618
97° 30' 38.53" W	35° 26' 27.34" N	Amis & Kelly	38E605	RCP	Street Improvement District # 1491-A	21	S. Oklahoma Ave.	OKLAHOMA	4641	T11N R3W S10	618
97° 31' 17.20" W	35° 26' 56.23" N		5E626	RCP				OKLAHOMA	4541	T11N R3W S9	617
97° 31' 13.96" W	35° 26' 55.75" N		5E626	RCP				OKLAHOMA	4541	T11N R3W S9	617
97° 30' 57.40" W	35° 26' 55.48" N		94E118	RCP				OKLAHOMA	4541	T11N R3W S9	617
97° 31' 3.94" W	35° 26' 55.58" N		47E402	RCP		30"		OKLAHOMA	4541	T11N R3W S9	617
97° 30' 58.62" W	35° 26' 55.65" N	W.W. Baker, City Engineer	94E118	RCP	Plan & Profile	18"	S.W. Robinson Avenue	OKLAHOMA	4541	T11N R3W S9	617
97° 31' 26.98" W	35° 26' 46.18" N							OKLAHOMA	4541	T11N R3W S9	617
97° 30' 46.57" W	35° 26' 14.35" N			RCP		24"		OKLAHOMA	4541	T11N R3W S9	617
97° 30' 49.46" W	35° 26' 10.78" N		60E121	RCP		18"		OKLAHOMA	4541	T11N R3W S9	617
97° 30' 50.90" W	35° 26' 7.26" N		34E208	RCP		42"		OKLAHOMA	4541	T11N R3W S9	617
97° 32' 38.96" W	35° 26' 34.57" N		DC-0132					OKLAHOMA	4441	T11N R3W S8	616
97° 32' 37.00" W	35° 26' 45.28" N			RCB				OKLAHOMA	4441	T11N R3W S8	616

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 32' 44.99" W	35° 26' 29.23" N		21E202	RCP				OKLAHOMA	4441	T11N R3W S8	616
97° 32' 36.79" W	35° 26' 45.60" N		4E100	RCP				OKLAHOMA	4441	T11N R3W S8	616
97° 32' 36.72" W	35° 26' 38.01" N			RCP				OKLAHOMA	4441	T11N R3W S8	616
97° 32' 39.31" W	35° 26' 32.87" N		24E52	RCP				OKLAHOMA	4441	T11N R3W S8	616
97° 32' 40.08" W	35° 26' 32.50" N	W.W. Baker, City Engineer	18E120	RCP	Plans Sheet	18"	Brock Creek	OKLAHOMA	4441	T11N R3W S8	616
97° 32' 51.38" W	35° 26' 18.27" N	V.G. Thompson, Engineer	53E89	RCP	Plans & Profiles	24"	S Pennsylvania Avenue	OKLAHOMA	4441	T11N R3W S8	616
97° 32' 48.44" W	35° 26' 21.05" N		DC-0132					OKLAHOMA	4441	T11N R3W S8	616
97° 32' 4.54" W	35° 26' 40.60" N			RCP				OKLAHOMA	4441	T11N R3W S8	616
97° 32' 53.92" W	35° 26' 7.06" N			RCP				OKLAHOMA	4341	T11N R3W S7	615
97° 32' 52.95" W	35° 26' 7.07" N			RCP				OKLAHOMA	4341	T11N R3W S7	615
97° 32' 53.21" W	35° 26' 9.34" N		DC-0132					OKLAHOMA	4341	T11N R3W S7	615
97° 34' 33.60" W	35° 26' 27.62" N			RCP				OKLAHOMA	4241	T11N R4W S12	614
97° 34' 27.74" W	35° 26' 47.60" N	HE Chase, City Engineer	2E100	RCP	Plans & Profiles	21"	SW 18th Street	OKLAHOMA	4241	T11N R4W S12	614
97° 34' 28.20" W	35° 26' 44.31" N	HE Chase, City Engineer	3E100	RCP	Plans & Profiles	21"	SW 19th Street	OKLAHOMA	4241	T11N R4W S12	614
97° 34' 34.29" W	35° 26' 24.35" N	W.W. Baker, City Engineer	95E110	RCP	Plans & Profiles	24"	S.W. 25th Street	OKLAHOMA	4241	T11N R4W S12	614
97° 34' 29.17" W	35° 26' 44.27" N	Haskell – Lemon	18E623	RCP	Paving Rockwood Add.	24"	S.W. 19th Street	OKLAHOMA	4241	T11N R4W S12	614
97° 34' 27.77" W	35° 26' 41.05" N	HE Chase, City Engineer	4E100	RCP	Plans & Profiles	21"	SW 20th Street	OKLAHOMA	4241	T11N R4W S12	614
97° 34' 32.01" W	35° 26' 27.64" N			RCP				OKLAHOMA	4241	T11N R4W S12	614
97° 34' 42.40" W	35° 26' 7.32" N			RCP				OKLAHOMA	4241	T11N R4W S12	614
97° 34' 43.18" W	35° 26' 7.51" N			RCP		54"		OKLAHOMA	4241	T11N R4W S12	614
97° 34' 59.93" W	35° 26' 7.02" N		26E114	RCP		24"		OKLAHOMA	4241	T11N R4W S12	614
97° 34' 27.78" W	35° 26' 50.81" N		1E617	RCP	Robert S. Kerr Village OKC Housing Authority	30"	OKC Housing Authority	OKLAHOMA	4241	T11N R4W S12	614

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 35' 1.50" W	35° 26' 57.93" N							OKLAHOMA	4141	T11N R4W S11	613
97° 35' 51.80" W	35° 26' 56.78" N	Jordan Construction	PV-0025	RCP	Holiday Inn Full Service Staybridge Hotel	24"	N of SW 15th & E of Meridian Ave	OKLAHOMA	4141	T11N R4W S11	613
97° 35' 40.91" W	35° 26' 53.90" N							OKLAHOMA	4141	T11N R4W S11	613
97° 35' 18.63" W	35° 26' 54.61" N							OKLAHOMA	4141	T11N R4W S11	613
97° 37' 6.95" W	35° 26' 56.61" N	Haskell Lemon Construction Co.	6E632	RCB	Plan of Proposed County Highway	2-10' x 5'	S.W. MacArthur	OKLAHOMA	4041	T11N R4W S10	612
97° 37' 7.13" W	35° 26' 51.70" N	Haskell Lemon Construction Co.	6E632	RCSP	County Highway	24"	S.W. MacArthur	OKLAHOMA	4041	T11N R4W S10	612
97° 36' 11.05" W	35° 26' 57.83" N	Brewski Construction	PV-0021	RCP	Towneplace Suites	24"	N of SW 15th St & W of Meridian Ave	OKLAHOMA	4041	T11N R4W S10	612
97° 36' 7.13" W	35° 26' 57.65" N	Brewski Construction	PV-0020	RCP	Towneplace Suites	24"	N of SW 15th St & W of Meridian Ave	OKLAHOMA	4041	T11N R4W S10	612
97° 40' 50.81" W	35° 26' 58.86" N	JGVE, Inc.	PC-0090						3641	T11N R5W S12	608
97° 41' 17.53" W	35° 26' 20.61" N	D&H Construction	PD-1466	RCP	Fountaingrass Addition Section 1	42"	3-8-05		3641	T11N R5W S12	608
97° 41' 20.36" W	35° 26' 19.64" N	D&H Construction	PD-1466	RCP	Fountaingrass Addition Section 1	60"	N of SW 29th St & E of Morgan Road		3641	T11N R5W S12	608
97° 41' 12.19" W	35° 26' 22.64" N	D&H Construction	PD-1466	RCP	Fountaingrass Addition Section 1	48"	N of SW 29th St & E of Morgan Road		3641	T11N R5W S12	608
97° 41' 6.83" W	35° 26' 25.66" N	Silver Star Construction	PD-1742	RCP	Fountaingrass Addition Section 3	30"	N of SW 29th St & E of Morgan Road		3641	T11N R5W S12	608
97° 41' 0.24" W	35° 26' 27.76" N	Silver Star Construction	PD-1742	RCP	Fountaingrass Addition Section 3	18"	N of SW 29th St & E of Morgan Road		3641	T11N R5W S12	608
97° 42' 24.16" W	35° 26' 39.19" N	Steelman Construction Co.	13E622	Concrete	Paving Plans Westbury	6' btm, 4' deep	Westbury		3541	T11N R5W S11	607
97° 41' 38.18" W	35° 26' 20.94" N	H&H Plumbing	PD-1576	RCP	Thornberry Place	24"	N of SW 29th St & W of Morgan Road		3541	T11N R5W S11	607
97° 42' 21.62" W	35° 26' 38.91" N	Atlas Paving Co.	13E622	CGMPA	Paving Plans Westbury	43 X 27	Westbury		3541	T11N R5W S11	607
97° 43' 24.63" W	35° 26' 46.89" N	Brewer Construction Co.	DD-0547	RCP	Links @ Mustang Creek Section 10	48"	S of SW 15th St & E of Mustang Road		3441	T11N R5W S10	606
97° 42' 35.01" W	35° 26' 40.72" N	Atlas Paving Co.	PD-1537	RCP	Mustang Creek II	36"	S of SW 15th St & W of Sara Rd		3441	T11N R5W S10	606
97° 42' 25.30" W	35° 26' 38.64" N	Atlas Paving Co.	PD-1537	RCP	Mustang Creek II	30"	S of SW 15th St & W of Sara Rd		3441	T11N R5W S10	606
97° 42' 42.54" W	35° 26' 42.53" N	Atlas Paving Co.	PD-1537	RCP	Mustang Creek II	30"	S of SW 15th St & W of Sara Rd		3441	T11N R5W S10	606
97° 42' 49.04" W	35° 26' 47.11" N	Atlas Paving Company	PD-1831	RCPA	Mustang Creek III	31.31"x51.12"	S of SW 15th St & W of Sara Road		3441	T11N R5W S10	606

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 42' 54.44" W	35° 26' 48.85" N	Atlas Paving Company	PD-1831	RCPA	Mustang Creek III	26.63"x43.75"	S of SW 15th St & W of Sara Road		3441	T11N R5W S10	606
97° 43' 47.20" W	35° 26' 35.00" N	All Roads Paving Inc.	PD-2074	RCP	Timbercreek Estates Phase 2	36"	S of SW 15th St & W of S Mustang Rd		3341	T11N R5W S9	605
97° 43' 44.27" W	35° 26' 33.29" N	TJ Campbell Construction	PD-1997	CON	Canyon Creek Phase 1	3'x4"	N of SW 29th St & W of Mustang Road		3341	T11N R5W S9	605
97° 43' 43.82" W	35° 26' 29.15" N	TJ Campbell Construction	PD-1997	CON	Canyon Creek Phase 1	9'	N of SW 29th St & W of Mustang Road		3341	T11N R5W S9	605
97° 22' 21.53" W	35° 25' 24.90" N							OKLAHOMA	5340	T11N R2W S14	665
97° 24' 27.47" W	35° 25' 32.56" N			RCB				OKLAHOMA	5140	T11N R2W S16	663
97° 28' 36.36" W	35° 25' 51.42" N	Ray W. Lynch	2E120	RCB	Summery of Pay Quantities	(13-17-13)x8'	S.E. Grand Boulevard	OKLAHOMA	4840	T11N R3W S13	660
97° 28' 41.67" W	35° 25' 44.58" N	Ray W. Lynch	2E120	RCP	Summery of Pay Quantities	18"	S.E. Grand Boulevard	OKLAHOMA	4740	T11N R3W S14	659
97° 28' 41.13" W	35° 25' 44.80" N	Ray W. Lynch	2E120	RCP	Summery of Pay Quantities	18"	S.E. Grand Boulevard	OKLAHOMA	4740	T11N R3W S14	659
97° 28' 52.94" W	35° 25' 36.33" N	Schwarz Ready Mix	PD-0378	CGMPA	SE 37th St	33"X24"	SE 37th St & Missouri	OKLAHOMA	4740	T11N R3W S14	659
97° 30' 44.77" W	35° 25' 16.39" N		8E627	RCP		30"		OKLAHOMA	4640	T11N R3W S15	658
97° 30' 45.51" W	35° 25' 31.10" N		25E42	RCP		54"		OKLAHOMA	4540	T11N R3W S16	657
97° 30' 57.70" W	35° 25' 48.23" N			RCB				OKLAHOMA	4540	T11N R3W S16	657
97° 30' 49.14" W	35° 25' 52.79" N		36E29	RCP		24"		OKLAHOMA	4540	T11N R3W S16	657
97° 30' 51.55" W	35° 26' 3.45" N		34E208	RCP		15"		OKLAHOMA	4540	T11N R3W S16	657
97° 30' 46.97" W	35° 25' 38.93" N		49E93	RCP		24"		OKLAHOMA	4540	T11N R3W S16	657
97° 30' 51.00" W	35° 25' 15.13" N		8E627	RCP	Bond Issue Street Project #609-01	30"	S.W. & S.E. 44th Street	OKLAHOMA	4540	T11N R3W S16	657
97° 30' 49.91" W	35° 25' 56.12" N		26E64	RCP		18"		OKLAHOMA	4540	T11N R3W S16	657
97° 30' 48.62" W	35° 26' 1.10" N	Metropolitan Paving Co.	26E95	RCP	Plan & Profile	26"	E Broadway	OKLAHOMA	4540	T11N R3W S16	657
97° 30' 50.48" W	35° 26' 5.59" N	V.J. Thompson, Engineer	21E91	RCP	Plans and Profiles	18"	E Broadway	OKLAHOMA	4540	T11N R3W S16	657
97° 33' 2.11" W	35° 25' 44.41" N	H.E. Chase, City Engineer	69E99	RCP	Plans & Profiles	18"	SW 35th Street	OKLAHOMA	4340	T11N R3W S18	655
97° 33' 0.75" W	35° 25' 40.83" N			RCP		72"		OKLAHOMA	4340	T11N R3W S18	655

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 33' 1.63" W	35° 25' 40.62" N			RCP		72"		OKLAHOMA	4340	T11N R3W S18	655
97° 32' 54.06" W	35° 26' 1.64" N			RCP				OKLAHOMA	4340	T11N R3W S18	655
97° 33' 1.74" W	35° 25' 41.84" N	HE Chase, City Engineer	63E100	RCP	Plans & Profiles	24"	W. Brock Park Drive	OKLAHOMA	4340	T11N R3W S18	655
97° 33' 0.38" W	35° 25' 28.71" N	W.W. Baker, City Engineer	79E110	RCP	Plans & Profiles	18"	S.W. 40th Street	OKLAHOMA	4340	T11N R3W S18	655
97° 32' 53.45" W	35° 26' 4.07" N			RCP		18	S. Pennsylvania Ave.	OKLAHOMA	4340	T11N R3W S18	655
97° 32' 54.18" W	35° 26' 3.81" N		20E98	RCP	Storm Sewer Improvements Contract #4	18"	South Brock Park	OKLAHOMA	4340	T11N R3W S18	655
97° 32' 56.68" W	35° 25' 55.57" N		20E98	RCP	Storm Sewer Improvements Contract #4	18"	South Brock Park	OKLAHOMA	4340	T11N R3W S18	655
97° 32' 55.74" W	35° 25' 59.76" N		DC-0163					OKLAHOMA	4340	T11N R3W S18	655
97° 32' 58.33" W	35° 25' 51.71" N		20E98	RCP	Storm Sewer Improvements Contract #4	18"	South Brock Park	OKLAHOMA	4340	T11N R3W S18	655
97° 32' 59.87" W	35° 25' 48.15" N		20E98	RCP	Storm Sewer Improvements Contract #4	18"	South Brock Park	OKLAHOMA	4340	T11N R3W S18	655
97° 33' 1.09" W	35° 25' 44.72" N		20E98	RCP	Storm Sewer Improvements Contract #4	24"	South Brock Park	OKLAHOMA	4340	T11N R3W S18	655
97° 34' 47.57" W	35° 26' 6.12" N							OKLAHOMA	4240	T11N R4W S13	654
97° 35' 31.42" W	35° 25' 26.37" N	Swatek	72E93	RCP	Plan & Profile	30"	SW 42nd Street	OKLAHOMA	4140	T11N R4W S14	653
97° 38' 7.20" W	35° 25' 41.44" N	Downey Contracting	PV-0071	RCP	Hobby Lobby	48"	N of 44th & W of Hwy 152	OKLAHOMA	3940	T11N R4W S16	651
97° 38' 15.87" W	35° 25' 30.85" N	Lithco (Lippert Brothers)	DD-0747	RCB	Hobby Lobby, Phase 6	2-12'x5'	N of SW 44th St & W of Rockwell Ave	OKLAHOMA	3840	T11N R4W S17	650
97° 23' 58.81" W	35° 24' 29.89" N							OKLAHOMA	5239	T11N R2W S22	704
97° 24' 3.09" W	35° 24' 29.46" N							OKLAHOMA	5239	T11N R2W S22	704
97° 25' 5.82" W	35° 24' 47.47" N	Elmer Cornellios	PD-0089	RCP	Frolich Meadows Estates	60"	SE 55th St & Cloverlawn Dr.	OKLAHOMA	5139	T11N R2W S21	703
97° 25' 13.24" W	35° 24' 41.33" N	TJ Campbell Construction	PD-0904	CON	Frolich Meadows Estates Blocks 30-32		N of SE 59th St & E of Sooner Road	OKLAHOMA	5139	T11N R2W S21	703
97° 25' 2.69" W	35° 24' 59.20" N							OKLAHOMA	5139	T11N R2W S21	703
97° 25' 16.64" W	35° 24' 36.77" N	Males Brothers Paving	PD-0608	RCP	Frolich Meadows Estates	24"	SE 59th ST & Sooner Road	OKLAHOMA	5139	T11N R2W S21	703
97° 25' 17.46" W	35° 24' 30.39" N	Males Brothers Paving	PD-0608	RCP	Frolich Meadows Estates	30"	SE 59th ST & Sooner Road	OKLAHOMA	5139	T11N R2W S21	703

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 25' 36.66" W	35° 24' 39.19" N	Steelman Construction Co.	4E621	RCP	Paving Plans Frolich Meadows	30"	Frolich Meadows	OKLAHOMA	5039	T11N R2W S20	702
97° 25' 35.88" W	35° 24' 37.53" N	Atlas Paving Co.	3E621	RCP	Paving Plans Frolich Meadows	30"	Frolich Meadows	OKLAHOMA	5039	T11N R2W S20	702
97° 25' 33.79" W	35° 24' 35.26" N	Atlas Paving Co.	3E621	RCP	Paving Plans Frolich Meadows	36"	Frolich Meadows	OKLAHOMA	5039	T11N R2W S20	702
97° 25' 38.23" W	35° 24' 31.30" N	Southwest Paving Co.	5E621	RCP	Paving Plans Frolich Meadows	36"	Frolich Meadows	OKLAHOMA	5039	T11N R2W S20	702
97° 25' 38.20" W	35° 24' 25.58" N	Southwest Paving Co.	5E621	RCP	Paving Plans Frolich Meadows	30"	Frolich Meadows	OKLAHOMA	5039	T11N R2W S20	702
97° 25' 25.39" W	35° 25' 12.46" N		6E637	CGMP	Street Project # 2-79-C, Phase I	36"	S. Sooner Road	OKLAHOMA	5039	T11N R2W S20	702
97° 25' 33.55" W	35° 24' 38.38" N	Atlas Paving Co.	PD-1301	RCPA	Holly Brooke Estates Section 2	58"X36"	N of SE 59th St & W of Sooner Road	OKLAHOMA	5039	T11N R2W S20	702
97° 25' 31.82" W	35° 24' 41.77" N	Atlas Paving Co.	PD-1060	Concrete	Holly Brooke Estates Section 1	4'	N of SE 59th St & W of Sooner Road	OKLAHOMA	5039	T11N R2W S20	702
97° 25' 29.56" W	35° 24' 44.53" N	Atlas Paving Co.	PD-1060	Concrete	Holly Brooke Estates Section 1	4'	N of SE 59th St & W of Sooner Road	OKLAHOMA	5039	T11N R2W S20	702
97° 25' 35.07" W	35° 24' 30.65" N	T.J. Campbell Construction	PD-1473	RCP	Holly Brooke Estates Section 3	18"	N of SE 59th St & W of Sooner Road	OKLAHOMA	5039	T11N R2W S20	702
97° 27' 32.42" W	35° 24' 48.04" N		14E606	RCP	Paving Plans Section 5 Oakcliff Addition	(2) 30"	Bodine Drive	OKLAHOMA	4939	T11N R2W S19	701
97° 27' 32.66" W	35° 24' 59.14" N	Slayter Brothers Construction	5E607	RCP	Paving Plans Lumbermen's #3 Add.	48"	Lumbermen's #3 Add.	OKLAHOMA	4939	T11N R2W S19	701
97° 27' 32.28" W	35° 24' 50.16" N							OKLAHOMA	4939	T11N R2W S19	701
97° 27' 30.50" W	35° 25' 1.37" N	Haskell Lemon Construction Co.	6E610	RCP	Paving Plans Oakcliff Addition, Sec. 2	30"	Oakcliff Addition	OKLAHOMA	4939	T11N R2W S19	701
97° 27' 18.77" W	35° 25' 6.13" N							OKLAHOMA	4939	T11N R2W S19	701
97° 27' 32.40" W	35° 24' 36.66" N	Haskell Lemon Construction Co.	10E610	RCP	Paving Oakcliff Addition, Sec. 8	36"	Oakcliff Addition	OKLAHOMA	4939	T11N R2W S19	701
97° 27' 32.39" W	35° 24' 33.91" N	Haskell Lemon Construction Co.	11E610	RCP	Paving Oakcliff Addition, Sec. 10		Oakcliff Addition	OKLAHOMA	4939	T11N R2W S19	701
97° 27' 32.45" W	35° 24' 31.09" N	Haskell Lemon Construction Co.	2E625	RCP	Paving Plan Oakcliff Addition	36"	Oakcliff	OKLAHOMA	4939	T11N R2W S19	701
97° 29' 0.51" W	35° 25' 6.23" N	Doerfler - Krapff	23E603	RCP	Paving Plans - Shallow Brook Addition	48"	Shallow Brook Addition	OKLAHOMA	4739	T11N R3W S23	699
97° 28' 37.74" W	35° 24' 23.09" N			RCB				OKLAHOMA	4739	T11N R3W S23	699
97° 28' 45.88" W	35° 24' 49.41" N		DC-0027	RCP		48"		OKLAHOMA	4739	T11N R3W S23	699
97° 28' 52.91" W	35° 24' 57.70" N	Doerfler – Krapff	11E603	RCSP	Paving Plan – Shallow Brook Addition Sec. III	33"	Shallow Brook Addition Sec. III	OKLAHOMA	4739	T11N R3W S23	699

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 28' 49.02" W	35° 24' 56.60" N	Doerfler – Krapff	11E603		Paving Plan – Shallow Brook Addition Sec. III	18"	Shallow Brook Addition Sec. III	OKLAHOMA	4739	T11N R3W S23	699
97° 28' 57.29" W	35° 25' 0.72" N	Doerfler – Krapff	11E603	RCP	Paving Plan – Shallow Brook Addition Sec. III	24"	Shallow Brook Addition Sec. III	OKLAHOMA	4739	T11N R3W S23	699
97° 31' 26.04" W	35° 24' 29.07" N							OKLAHOMA	4539	T11N R3W S21	697
97° 30' 51.09" W	35° 25' 5.07" N							OKLAHOMA	4539	T11N R3W S21	697
97° 31' 24.54" W	35° 24' 35.58" N		4E114	RCP		84"		OKLAHOMA	4539	T11N R3W S21	697
97° 30' 54.72" W	35° 25' 4.46" N	Metropolitan Paving Co.	101E80	RCP	Paving	18"	Robinwood Addition	OKLAHOMA	4539	T11N R3W S21	697
97° 31' 11.46" W	35° 24' 39.13" N	H.E. Chase, City Engineer	80E99	RCP	Private Contract Paving	15"	From S Walker to 478' East	OKLAHOMA	4539	T11N R3W S21	697
97° 31' 0.72" W	35° 25' 0.80" N	Metropolitan	27E118	CMP	Plans & Profiles	18"	S. Sage Avenue	OKLAHOMA	4539	T11N R3W S21	697
97° 31' 0.65" W	35° 25' 0.33" N	Metropolitan	27E118	CMP	Plans & Profiles	18"	S. Sage Avenue	OKLAHOMA	4539	T11N R3W S21	697
97° 31' 18.96" W	35° 24' 38.54" N	Patin Co.	71E118	RCP	Paving Plans	18"	S.W. 54th Street	OKLAHOMA	4539	T11N R3W S21	697
97° 31' 21.30" W	35° 24' 37.38" N	City Engineer	64E122	CMP	Paving Plans	20"	Beil Manor	OKLAHOMA	4539	T11N R3W S21	697
97° 31' 23.74" W	35° 24' 25.82" N		PD-0138					OKLAHOMA	4539	T11N R3W S21	697
97° 31' 25.00" W	35° 24' 30.84" N							OKLAHOMA	4539	T11N R3W S21	697
97° 31' 24.60" W	35° 24' 33.87" N							OKLAHOMA	4539	T11N R3W S21	697
97° 31' 5.96" W	35° 24' 41.94" N	Amis Materials Co.	DC-0036	RCB	Lightning Creek Proposed Channels Improvements	30"	N of SW 59th & E of Walker	OKLAHOMA	4539	T11N R3W S21	697
97° 31' 5.00" W	35° 24' 57.20" N	Amis Materials Company	DC-0015	RCP	Const. plans for Lightning Creek Phase I-A	72"	N of SW 59th St and W of S Santa Fe Ave	OKLAHOMA	4539	T11N R3W S21	697
97° 33' 11.89" W	35° 24' 27.94" N							OKLAHOMA	4339	T11N R3W S19	695
97° 33' 11.59" W	35° 24' 50.44" N		DC-0171B					OKLAHOMA	4339	T11N R3W S19	695
97° 33' 10.07" W	35° 24' 43.65" N		DC-0171B					OKLAHOMA	4339	T11N R3W S19	695
97° 33' 7.10" W	35° 25' 3.01" N		16E202	RCB		10'X3'		OKLAHOMA	4339	T11N R3W S19	695
97° 33' 11.08" W	35° 24' 48.09" N		103E114	RCP		36"		OKLAHOMA	4339	T11N R3W S19	695
97° 33' 10.78" W	35° 24' 46.87" N	Cobb & Thompson	65E89	RCP	Plan & Profile	24"	Youngs Place	OKLAHOMA	4339	T11N R3W S19	695

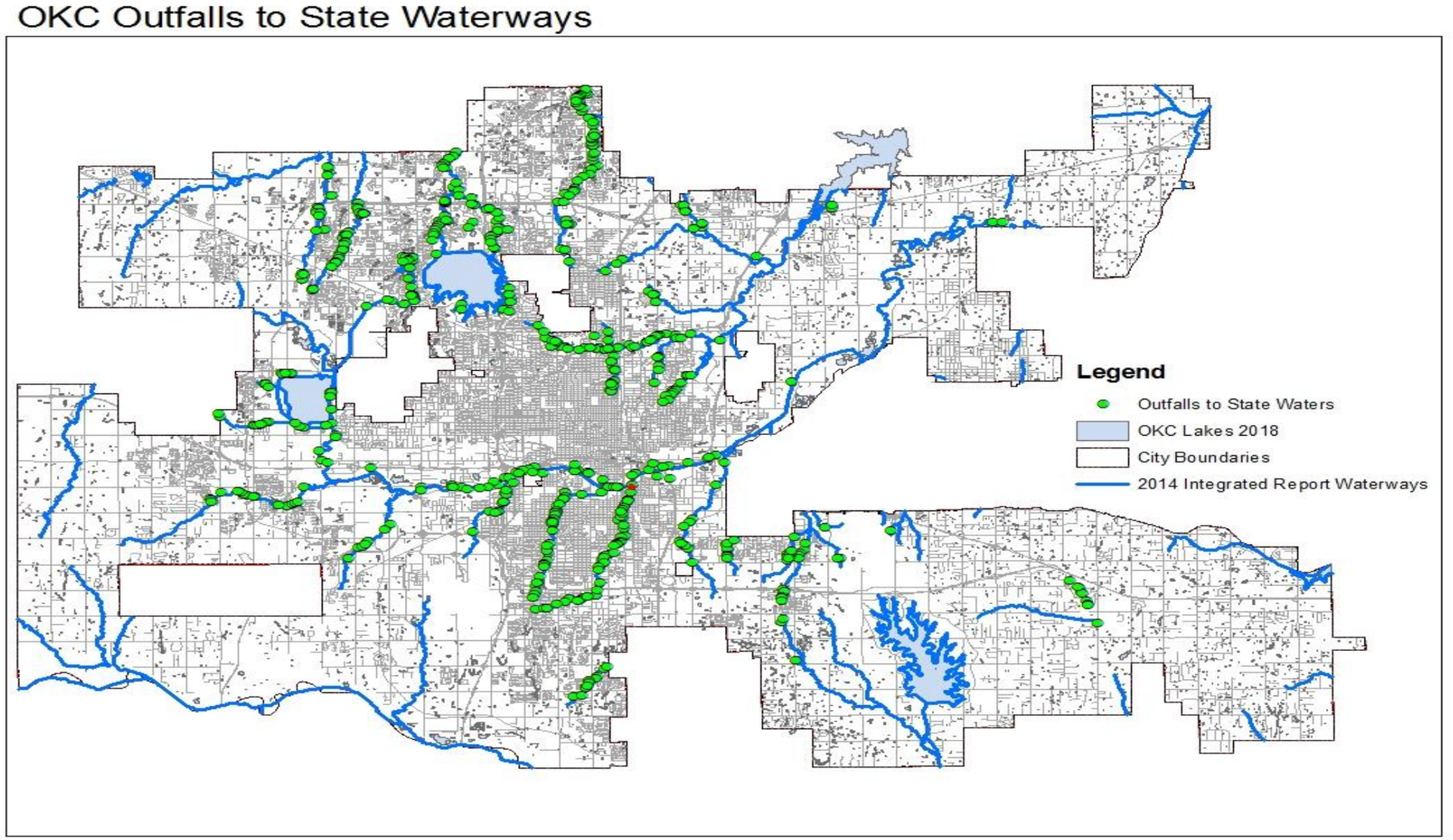
X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 33' 11.81" W	35° 24' 57.34" N	W.W. Baker, City Engineer	34E106	RCP	Plans & Profiles	24"	S.W. 49th Street	OKLAHOMA	4339	T11N R3W S19	695
97° 38' 52.23" W	35° 25' 5.66" N							OKLAHOMA	3839	T11N R4W S20	690
97° 38' 59.75" W	35° 24' 56.08" N		5E630	RCB	Street Project # 637	3) 12'X10'	S. Council Road	OKLAHOMA	3839	T11N R4W S20	690
97° 39' 6.15" W	35° 24' 54.38" N		5E630	RCP	Street Project # 637		S. Council Road	OKLAHOMA	3839	T11N R4W S20	690
97° 38' 57.63" W	35° 24' 59.85" N	D & D Utilities	PV-0129	RCB	Hobby Lobby	6'x4'	N of Hwy & E of Council	OKLAHOMA	3839	T11N R4W S20	690
97° 38' 48.64" W	35° 25' 6.74" N							OKLAHOMA	3839	T11N R4W S20	690
97° 38' 58.81" W	35° 24' 56.45" N	D & D Utilities	PV-0129	RCB	Hobby Lobby	6'x4'	N of Hwy 152 & E of Council	OKLAHOMA	3839	T11N R4W S20	690
97° 38' 55.23" W	35° 25' 1.54" N	D & D Utilities	PV-0129	RCB	Hobby Lobby	6'x4'	N of Hwy & E of Council	OKLAHOMA	3839	T11N R4W S20	690
97° 39' 26.76" W	35° 24' 32.66" N	Silver Star Construction	PD-1867	RCP	Clearwater Section 1	36"	N of SW 59th St & W of Council Road	OKLAHOMA	3739	T11N R4W S19	689
97° 16' 44.85" W	35° 23' 42.36" N			RCB				OKLAHOMA	5938	T11N R1W S26	751
97° 31' 32.02" W	35° 24' 16.25" N		DC-0013	RCP		30"		OKLAHOMA	4538	T11N R3W S28	737
97° 31' 32.31" W	35° 23' 41.27" N	Slayer Brothers Construction Co.	44E602	RCP	Plan South Woodview Add. Sec. 2	30"	South Woodview Add. Sec. 2	OKLAHOMA	4538	T11N R3W S28	737
97° 31' 32.87" W	35° 24' 11.89" N		DC-0048					OKLAHOMA	4538	T11N R3W S28	737
97° 31' 24.63" W	35° 24' 22.22" N		57E602	RCP	Widening & Resurfacing S.W. 59th Street	18"	S.W. 59th Street	OKLAHOMA	4538	T11N R3W S28	737
97° 31' 33.78" W	35° 24' 13.60" N		DC-0020	CGMP	Storm sewer in 6100 Block S. Shartel	30"	SE of SW 59th Street & S Western Ave	OKLAHOMA	4538	T11N R3W S28	737
97° 31' 33.78" W	35° 24' 8.70" N		DC-0020	CGMP	Storm sewer in 6100 Block S. Shartel	48"	SE of SW 59th Street & S Western Ave.	OKLAHOMA	4538	T11N R3W S28	737
97° 33' 15.85" W	35° 24' 22.04" N		57E602	RCP	Widening & Resurfacing S.W. 59th Street	24"	S.W. 59th Street	OKLAHOMA	4338	T11N R3W S30	735
97° 33' 25.37" W	35° 23' 55.14" N	Project Construction Co.	46E201	Concrete	1962 Bond Issue		SW 66th ST. & Miller Ave.	OKLAHOMA	4338	T11N R3W S30	735
97° 33' 32.81" W	35° 23' 35.52" N	Project Construction Co.	46E201	Concrete	1962 Bond Issue		SW 66th ST. & Miller Ave.	OKLAHOMA	4338	T11N R3W S30	735
97° 33' 31.18" W	35° 23' 42.03" N		25E606	RCP	Paving Plans Hillcrest Heights	24"	Hillcrest Heights	OKLAHOMA	4338	T11N R3W S30	735
97° 33' 30.92" W	35° 23' 41.82" N		25E606	RCP	Paving Plans Hillcrest Heights	24"	Hillcrest Heights	OKLAHOMA	4338	T11N R3W S30	735
97° 33' 16.89" W	35° 24' 18.22" N							OKLAHOMA	4338	T11N R3W S30	735

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 33' 16.29" W	35° 24' 15.37" N							OKLAHOMA	4338	T11N R3W S30	735
97° 19' 4.39" W	35° 35' 49.71" N							OKLAHOMA	5752	T13N R1W S16	189
97° 18' 46.37" W	35° 35' 49.15" N							OKLAHOMA	5752	T13N R1W S16	189
97° 16' 14.46" W	35° 23' 0.10" N							OKLAHOMA	5937	T11N R1W S35	791
97° 16' 27.39" W	35° 23' 26.48" N			RCB				OKLAHOMA	5937	T11N R1W S35	791
97° 16' 23.37" W	35° 23' 18.44" N			RCB				OKLAHOMA	5937	T11N R1W S35	791
97° 16' 21.10" W	35° 23' 15.85" N			RCB				OKLAHOMA	5937	T11N R1W S35	791
97° 16' 29.66" W	35° 23' 29.70" N			RCB				OKLAHOMA	5937	T11N R1W S35	791
97° 16' 11.86" W	35° 22' 54.21" N							OKLAHOMA	5937	T11N R1W S35	791
97° 16' 11.15" W	35° 22' 51.50" N							OKLAHOMA	5937	T11N R1W S35	791
97° 25' 46.09" W	35° 23' 26.88" N		PC-0155	RCB		2-10'X12'		OKLAHOMA	5037	T11N R2W S32	782
97° 25' 45.47" W	35° 23' 20.25" N	Silver Star Construction	PD-1565	RCB	Wind Wood North Section 3	9'x6'	S of SE 74th St & W of Sooner Road	OKLAHOMA	5037	T11N R2W S32	782
97° 25' 43.58" W	35° 23' 22.09" N	Silver Star Construction	PD-1565	RCB	Wind Wood North Section 3	9'x6'	S of SE 74th St & W of Sooner Road	OKLAHOMA	5037	T11N R2W S32	782
97° 25' 50.07" W	35° 23' 13.23" N	Silver Star Construction	PD-1565	RCP	Wind Wood North Section 3	42"	S of SE 74th St & W of Sooner Road	OKLAHOMA	5037	T11N R2W S32	782
97° 25' 50.18" W	35° 23' 10.03" N	Silver Star Construction	PD-1565	RCP	Wind Wood North Section 3	30"	S of SE 74th St & W of Sooner Road	OKLAHOMA	5037	T11N R2W S32	782
97° 25' 49.39" W	35° 23' 3.83" N	Silver Star Construction	PD-1565	RCP	Wind Wood North Section 3	30"	S of SE 74th St & W of Sooner Road	OKLAHOMA	5037	T11N R2W S32	782
97° 31' 40.28" W	35° 23' 15.52" N							OKLAHOMA	4537	T11N R3W S33	777
97° 31' 39.98" W	35° 23' 15.80" N							OKLAHOMA	4537	T11N R3W S33	777
97° 31' 35.90" W	35° 23' 27.67" N		DC-0003	RCP	South Shartel & SW 74th (I-240)	54"	S of SW 74th St and E of Western Ave	OKLAHOMA	4537	T11N R3W S33	777
97° 32' 2.66" W	35° 23' 11.92" N	Slayter Brothers	12E603	RCP	Paving Plan – Southern Hills Addition Sec. 4	36"	Southern Hills Addition Sec. 4	OKLAHOMA	4437	T11N R3W S32	776
97° 32' 28.87" W	35° 23' 10.34" N		15E606	RCP	Paving Plans Southern Hills Addition	30"	SE of S Pennsylvania Ave & I-240 (SW 74th St)	OKLAHOMA	4437	T11N R3W S32	776
97° 32' 7.52" W	35° 23' 8.05" N	Lynch Construction	16E620	RCP	Paving Plans Southern Hills	24"	Southern Hills	OKLAHOMA	4437	T11N R3W S32	776

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 31' 55.13" W	35° 23' 13.54" N							OKLAHOMA	4437	T11N R3W S32	776
97° 31' 55.65" W	35° 23' 13.56" N	Comet Construction Co.	12E634	RCP	Southern Hills Paving & Drainage Plans	42"	Southern Hills	OKLAHOMA	4437	T11N R3W S32	776
97° 32' 29.43" W	35° 23' 9.99" N		DC-0021	RCP	Storm Sewer & Drainage Improvements -5121 S Brookline, 11216	48"	SE of S Pennsylvania Ave & I-240 (SW 74th St)	OKLAHOMA	4437	T11N R3W S32	776
97° 32' 37.89" W	35° 23' 3.65" N	Slayfer Brothers	31E601	RCP	Anton Estates Addition – Paving Plans	30"	Anton Estates	OKLAHOMA	4437	T11N R3W S32	776
97° 32' 14.08" W	35° 23' 5.25" N	Lynch Construction	16E620	RCB	Paving Plans Southern Hills	2 - 8' X 4'	Southern Hills	OKLAHOMA	4437	T11N R3W S32	776
97° 33' 32.87" W	35° 23' 25.08" N	Metropolitan Construction Co.	59E118	RCP	Paving Plans	18"	Meadow Cliff	OKLAHOMA	4337	T11N R3W S31	775
97° 33' 36.10" W	35° 23' 18.51" N	Metropolitan Paving Co.	3E120	RCSP	Paving Plans	18"	Meadow Cliff Addition, Sec. 2	OKLAHOMA	4337	T11N R3W S31	775
97° 33' 39.48" W	35° 23' 12.69" N	Metropolitan Paving Co.	3E120	RCSP	Paving Plans	30"	Meadow Cliff Addition, Sec. 2	OKLAHOMA	4337	T11N R3W S31	775
97° 32' 52.60" W	35° 22' 58.40" N							OKLAHOMA	4337	T11N R3W S31	775
97° 33' 33.18" W	35° 22' 47.76" N							OKLAHOMA	4337	T11N R3W S31	775
97° 33' 16.95" W	35° 22' 51.24" N	Atlas	29E601	RCP	P.B. Odom's South Penn. 4th Add. – Paving Plan	48"	South Penn. Add.	OKLAHOMA	4337	T11N R3W S31	775
97° 33' 11.68" W	35° 22' 51.48" N	Atlas Paving Co.	21E602	RCP	Paving Plan for P.B. Odom's S. Pennsylvania 5th Add.	30"	P.B. Odom's S. Pennsylvania 5th Add.	OKLAHOMA	4337	T11N R3W S31	775
97° 15' 54.10" W	35° 22' 14.93" N			RCP					5936	T10N R1W S2	831
97° 25' 48.60" W	35° 22' 21.17" N	D&H Construction	PD-1406	RCP	Dublin Bay Addition Section 2	30"	S of SE 89th St & W of Sooner Road		5036	T10N R2W S5	822
97° 25' 47.05" W	35° 22' 26.09" N	D&H Construction	PD-1406	RCP	Dublin Bay Addition Section 2	36"	S of SE 89th St & W of Sooner Road		5036	T10N R2W S5	822
97° 25' 22.58" W	35° 21' 2.22" N			RCB					5135	T10N R2W S9	863
97° 31' 38.61" W	35° 20' 31.92" N								4534	T10N R3W S16	897
97° 31' 24.22" W	35° 20' 47.21" N	Burns Paving	PD-0805	CON	Greenbriar East Lake Sec.2	4	S of SW 119th ST & E of Western Ave		4534	T10N R3W S16	897
97° 31' 19.71" W	35° 20' 50.66" N	Atlas Paving Co.	PD-1129				S of SW 119th St & E of Western Ave.		4534	T10N R3W S16	897
97° 31' 41.35" W	35° 20' 27.21" N	M. C. Miller Construction Co., Inc.	16E626	concrete	Paving & Drainage for Greenbriar East Lake Estates, Sec. 6		Greenbriar East Lake Estates		4534	T10N R3W S16	897
97° 31' 59.38" W	35° 20' 10.86" N			RCP					4434	T10N R3W S17	896
97° 31' 56.04" W	35° 20' 13.18" N		DD-0113	RCP		42"			4434	T10N R3W S17	896

X Coord. (-97)	Y Coord. (+35)	Installation Contractor	Project Number	MATERIAL	NAME	Size	Location Description	County	OKC Fire Grid	Legal	OKC Atlas #
97° 31' 54.68" W	35° 20' 21.30" N			RCP					4434	T10N R3W S17	896
97° 32' 0.45" W	35° 20' 7.28" N	Slayter Brothers Construction Co.	PD-0187	RCP	Eastlake Estates Sec 13	33"	SW 133rd St & Briar Hollow Ln		4434	T10N R3W S17	896
97° 31' 52.57" W	35° 20' 23.58" N	Brewer Construction Co.	PD-0217	RCP	Greenbriar Eastlake Estates Sec. 11	42"	SW 126th ST & Briar Hallow Lane		4434	T10N R3W S17	896
97° 31' 55.07" W	35° 20' 18.00" N	T.J. Campbell Construction	PD-0749	RCP	Eastlake Estates Section 17	30"	N of SW 134th St & W of Western Ave		4434	T10N R3W S17	896
97° 31' 57.57" W	35° 20' 12.93" N	Marler Construction Co.	PD-0703	RCP	Eastlake Estates Sec 15	36"	N of SW 134th St & W of Western Ave.		4434	T10N R3W S17	896
97° 32' 23.46" W	35° 19' 50.91" N	T.J. Campbell Construction	PD-0967	RCP	Calistoga Crossing Section 1	30"	S of SW 134th St & E of Pennsylvania Ave.		4433	T10N R3W S20	936
97° 32' 7.00" W	35° 19' 53.59" N	Silver Star Construction	PD-1379	Concrete	Tuscany	4'X6"	S of SW 134th St & W of Western Ave		4433	T10N R3W S20	936

Appendix AP: Map of Outfalls to State Waterways in Oklahoma City



Appendix AQ: Renewal of the Oklahoma City MS4 Permit Letter November 15, 2017 and May 15, 2019

The City of
OKLAHOMA CITY
DEPARTMENT OF PUBLIC WORKS

November 15, 2017

Michael Jordan, P.E., Manager
Oklahoma Department of Environmental Quality
707 N. Robinson
P. O. Box 1677
Oklahoma City, OK 73101-1677

RE: Renewal of the Oklahoma City Municipal Separate Storm Sewer Permit (MS4)

Dear Mr. Jordan:

Pursuant to rules set forth in 40 CFR 122, the City must submit the reapplication on the Phase I MS4 Permit, OKS000101, 180 days prior to the permit expiration date of March 14, 2018.

With this in mind we submit the following additional proposed change to the City of Oklahoma City Permit OKS000101 for the upcoming five (5) year term of 2018-2023. This is in addition to the previously submitted proposed changes dated September 15, 2017. The City requests that the "Optional Permit Requirements for Municipal Construction Activities" be added to upcoming five (5) term permit of 2018-2023. This language was taken, in part, from the ODEQ General Permit OKR04.

OPTIONAL PERMIT REQUIREMENTS FOR MUNICIPAL CONSTRUCTION ACTIVITIES

The development of this optional provision for municipal construction activities is an alternative for the MS4 operator seeking coverage under this Permit. This provision does not apply to Oklahoma Turnpike Authority (OTA) or Oklahoma Department of Transportation (ODOT), who are MS4 operators. Additionally, contractors working for the MS4 operator are not required to obtain separate authorization as long as the contractor does not meet the definition of "construction site operator". MS4s that choose to develop this option will be authorized by the Permit to discharge stormwater and certain non-stormwater from construction activities where the MS4s are the "construction site operators". For MS4s that choose this measure, it shall be part of the SWMP submitted with the initial NOI. You must comply with the requirements in OKR10 Stormwater Discharges from Construction Activities (OKR10).

If you choose not to develop this option measure, then you must submit a NOI and seek coverage under the DEQ general permit (OKR10) for stormwater discharges from construction activities.

If this optional provision requirement is elected you must include the following in your SWMP.

1. Description of how construction activities will generally be conducted by the MS4. Local conditions and other site specific considerations must be included in the description.

2. Description of how the MS4 will implement the technology-based requirements to comply with Effluent Limitation Guidelines and Standards for the Construction and Development Point Source Category (ELGs) under Part 450 of 40 CFR, effective February 1, 2010.

3. Description of how the MS4 will ensure that the SWP3 requirements are properly implemented and maintained at the construction site; or how the MS4 will ensure that the contractors obtain a separate authorization for stormwater discharges from DEQ for each project: and

4. General Stormwater Pollution Prevention Plan (SWP3) conditions and a procedure to include site specific BMPs to account for local considerations.

Your consideration of the proposed change is greatly appreciated. Please contact Mr. Raymond Melton at (405) 297-2179 if you have any questions regarding this letter or if you require additional information.

Sincerely,

Eric J. Wenger, P.E., Director
Public Works/City Engineer

The City of
OKLAHOMA CITY
DEPARTMENT OF PUBLIC WORKS

May 15, 2019

Karen Steele
Municipal Discharge and Stormwater Permitting Section Manager
Oklahoma Department of Environmental Quality
707 N. Robinson
P. O. Box 1677
Oklahoma City, OK 73101-1677

Subject: Renewal of the Oklahoma City Municipal Separate Storm Sewer Permit (Revision May 14, 2019)

Dear Ms. Steele:

Pursuant to rules set forth in 40 CFR 122, the City must submit the reapplication on the Phase I MS4 Permit, OKS000101, 180 days prior to the permit expiration date of March 14, 2018. It is my privilege to submit the attached Storm Water Municipal Separate Storm Sewer System (MS4) Application for the City of Oklahoma City and Co-Permitees Oklahoma Turnpike Authority and Oklahoma Department of Transportation.

With this in mind we submit the following proposed changes to the City of Oklahoma City Permit OKS000101 for the upcoming five (5) year term of 2018-2023.

Item 1: Current permit language, Part I, Discharges Authorized Under This Permit, Section C.1.d.:

d. Collection of representative wet weather monitoring data required by Part V.B according to such agreements as may be established between permittees;....

Proposed permit language change, Part I, Discharges Authorized under This Permit, Section C.1.d.

d. Collection of representative continuous flow and flow weighted sampling data required by Part V.B according to such agreements as may be established between parties;...

- **Comment 1**: See Item 5, 11, 14, 15, 16, and 19 for additional information. Oklahoma City met with the Oklahoma Department of Environmental Quality on April 25, 2019. The phrase "collection of representative continuous flow and flow weighted sampling data" was discussed. EPA's NPDES Storm Water Sampling Guidance Manual (EPA 833-B-92-001, July 1992) provides that storm water samples can be collected manually or automatically. For both methods equal volume aliquots may be collected at the time of sampling and then flow-proportioned and composited in the laboratory, **or the aliquot may be collected based on the flow rate at the time of sample collection and composited in the field** (emphasis added). Further into the document, EPA provides three methods of programming an automatic sampler for sample collection: (1) collect a sample at equal time intervals and varying aliquot volumes

commensurate with flow (either rate or volume); (2) collect equal volume aliquots at varying time intervals commensurate with the flow volume that has passed; or (3) to collect equal volume aliquots of sample at equal time intervals. Provisions of 40 CFR Part 122.21(g)(7) for the collection of flow weighted composite samples establish a minimum time duration between sample aliquots. Where these conditions cannot be met, the **permitting authority may allow** alternate protocols with respect to the time duration between sample aliquots (emphasis added). Protocols for time interval sampling were established for short term monitoring (i.e. – hours) and by personnel collecting grab samples during the targeted sampling conditions. EPA allows flexibility with regard to sampling protocol based on the resources available to the sampling entity. 40 CFR 122.21(g)(7)(ii) provides "The flow-weighted" composite sample for a storm water discharge may be taken with a continuous sampler **or** as a combination of a minimum of three sample aliquots taken in each hour of discharge for the entire discharge or for the first three hours of the discharge…" (emphasis added).

Item 2: Current permit language, Part II, Storm Water Management Program, Section A6(2)d.

*The discharge or disposal of used motor vehicle fluids, household hazardous wastes, grass clippings, leaf litter, and animal wastes into separate storm sewers shall continue to be prohibited. The permittee(s) shall ensure the program continue to be implemented, revised and updated as necessary, to collect used motor vehicle fluids (at a minimum, oil and antifreeze) for recycle, reuse, or proper disposal and to collect household hazardous waste materials (including paint, solvents, pesticides, herbicides, and other hazardous materials) for recycle, reuse, or proper disposal. Such programs shall be **readily available to all private residents** and shall be publicized and promoted on a regular basis. (Emphasis added)*

Proposed permit language change, Part II, Storm Water Management Program, Section A6(2)d.

The discharge or disposal of used motor vehicle fluids, household hazardous wastes, grass clippings, leaf litter, and animal wastes into separate storm sewers shall continue to be prohibited. The permittee(s) shall ensure the program continue to be implemented, revised and updated as necessary, to collect used motor vehicle fluids (at a minimum, oil and antifreeze) for recycle, reuse, or proper disposal and to collect household hazardous waste materials (including paint, solvents, pesticides, herbicides, and other hazardous materials) for recycle, reuse, or proper disposal. Such programs shall be readily available to all **qualifying Oklahoma City residents or residents from other communities with legal interjurisdictional agreements** and shall be publicized and promoted on a regular basis. (Emphasis added)

- **Comment 2**: Discussion was held between Oklahoma City and ODEQ regarding clarification to the permit language for availability of residential use of the Household Hazardous Waste Collection Facility (HHWCF). The current permit language states "...readily available to all private residents…". Oklahoma City would like to clarify the permit language to "…readily available to all qualifying Oklahoma City residents or residents from other communities with legal interjurisdictional agreements…". This clarifies that household hazardous waste is accepted from other communities which have the legal tools in place to use the facility and to verify contributing participants from their respective communities are residents. Likewise, Oklahoma City uses utility bills to verify residency. 40 CFR Part 261.4 provides an exclusion for the collection of household hazardous waste. The waste must meet two criteria: (1) the waste must be generated by

individuals on the premise of a temporary or permanent residence, and (2) the waste stream must be composed primarily of materials found in wastes generated by consumers in their homes. Thus, the additional clarification is warranted. If a participant cannot prove residency through the required documentation, that participant is not "qualified" to use the facility.

Item 3: Current permit language, Part II, Storm Water Management Program (SWMP), Section 6a, Part (1):

(1) Categories of non-storm water discharges that the permittee(s) may exempt from the Prohibition on non-storm water entering the MS4 include:

(a) Water line flushing;
(b) Landscape irrigation;
(c) Diverted stream flows;
(d) Rising ground waters;
(e) Uncontaminated ground water infiltration to separate storm sewers;
(f) Uncontaminated pumped ground water;
(g) Discharge from potable water sources;
(h) Foundation drains;
(i) Air conditioning condensation;
(j) Irrigation water;
(k) Springs;
(l) Water from crawl space pumps;
(m) Footing drains;
(n) Lawn watering;
(o) Individual residential car washing;
(p) Flows from riparian habitats and wetlands;
(q) Dechlorinated swimming pool discharges;
(r) Discharges from emergency fire fighting activities provided procedures are in place for the Incident Commander, Fire Chief, or other on-scene fire fighting official in charge to make an evaluation regarding potential releases of pollutants from the scene. Measures must be taken to reduce any pollutant releases to the maximum extent practicable subject to all appropriate actions necessary to ensure public health and safety. These procedures must be documented in your SWMP. Discharges or flows from fire fighting training activities are not authorized by this permit.

Proposed permit language change, Part II, Storm Water Management Program (SWMP), Section 6a, Part (1):

(1) Categories of non-storm water discharges that the permittee(s) may exempt from the prohibition on non-storm water entering the MS4 include:

(a) Water line flushing;
(b) Landscape irrigation;
(c) Diverted stream flows;
(d) Rising ground waters;
(e) Uncontaminated ground water infiltration to separate storm sewers;
(f) Uncontaminated pumped ground water;
(g) Discharge from potable water sources;
(h) Foundation drains;

(i) Air conditioning condensate;
(j) Irrigation water;
(k) Springs;
(l) Water from crawl space pumps;
(m) Footing drains;
(n) Lawn watering;
(o) Individual residential car washing;
(p) Flows from riparian habitats and wetlands;
(q) Dechlorinated swimming pool discharges **(excluding filter backwash or discharges associated with salt water pool systems)**. (Emphasis added)
(r) Discharges from emergency firefighting activities provided procedures are in place for the Incident Commander, Fire Chief, or other on-scene fire fighting official in charge to make an evaluation regarding potential releases of pollutants from the scene. Measures must be taken to reduce any pollutant releases to the maximum extent practicable subject to all appropriate actions necessary to ensure public health and safety. These procedures must be documented in your SWMP. Discharges or flows from fire fighting training activities are not authorized by this permit.
(s) **Surface water impoundment discharges from draining activities (provided that controls are put into place prior to commencement of any draining activities not associated with precipitation to limit the discharge of any associated pollutants or sediments and to control the quantity of the discharge rate and volume as to not cause or contribute to significant bank erosion, streambed scour or downstream flooding).** (Emphasis added)

- **Comment 3**: Item (q) should be amended to ensure that salt water pool systems and pool filter backwash is prohibited regardless of de-chlorination. Item (s) is related to the drainage of ponds, reservoirs, detention, retention basins or other dewatering activities which do not require a permit (such as a construction site). Best management practices should be used to reduce or eliminate the discharge of pollutants during the dewatering activities. Best Management Practices may include filtering the discharge through a dewatering bag or similar structure, draining from the surface of the pond, limiting the amount of bottom sludge disturbed during the draining process, obtaining permission from the applicable municipality prior to draining the structure and limiting the flow into receiving storm drainage structures or receiving streams.

Item 4: Current permit language, Part II, Storm Water Management Program (SWMP) Section 13a, Monitoring Programs:

*The Dry Weather Screening Program shall continue ongoing efforts to detect the presence of illicit connections and improper discharges to the MS4. **All areas of the MS4** must be screened at least once during the permit term. Screening methodology… (Emphasis added)*

Proposed permit language change, Part II, Storm Water Management Program (SWMP), Section 13a: The Priority Based Monitoring Program:

The Dry Weather Screening Program shall continue ongoing efforts to detect the presence of illicit connections and improper discharges to the MS4. **All** ~~**representative locations**~~ field screening points must be screened at least once during the permit term. Screening methodology… (Emphasis added)

- **Comment 4**: Discussion with the ODEQ identified that "representative locations" may not be a term based on 40 CFR. Oklahoma City agrees and has changed the term to "field screening points". The phrase "all areas of the MS4" has been changed to "all field screening points" to clarify the intent of Oklahoma City to meet the requirements of 40 CFR 122.26 and to meet or exceed the field screening point requirements for a large MS4 of no more than 500 cells with field screening points.

Item 5: Current permit language, Part II, Storm Water Management Program (SWMP) Section 13b, *The Wet Weather Screening Program*:

The permittee(s) shall identify, investigate, and address areas within their jurisdiction that may be contributing excessive levels of pollutants to the MS4. The wet weather screening program:

(1). Shall screen the MS4, in accordance with the procedures specified in the SWMP;

(2). Shall specify the sampling and non-sampling techniques to be used for initial screening and follow-up purposes. Sample collection and analysis need not conform to the requirements of OAC 252:606-1-3(b)(7) adopting and incorporating by reference 40 CFR Part 136. However, samples taken to confirm (e.g. in support of possible legal action) a particular illicit connection or improper disposal practice should conform to the requirements of OAC 252:606-1-3(b)(7).

- **Proposed permit language change**, Trend and Load Based Monitoring: The permittee(s) shall identify representative drainages to monitor and calculate annual loadings based on continuous monitoring of flow and select parameters. A flow weighted sampling approach will be used to collect individual aliquots which will be composited as a flow weighted sample for laboratory analysis. Sample analysis will conform to 40 CFR Part 136. The Trend and Load Based Monitoring Program will provide long-term stream quality information which will assist Oklahoma City to determine if programmatic changes are creating measurable changes within the drainages monitored. The Load Based Monitoring Program:

  (1) Shall be selected from representative drainages within the jurisdiction;
  (2) Shall be monitored in accordance with the procedures specified in the SWMP;
  (3) Shall specify the sampling and data needs associated with the data quality objectives. Sample collection will conform to applicable standard operating procedures and analytical services will conform to the requirements of OAC 252:606-1-3(b)(7) adopting and incorporating by reference 40 CFR Part 136.

- **Comment 5**: See Item 11, 14, 15, 16, and 19 for additional program language. Oklahoma City and ODEQ discussed the TLBM project. ODEQ requested more information regarding the location of the sampling stations. Also for Oklahoma City to determine the location of each station in relation to the HUC 11 basins. Oklahoma City identified six HUC 11 basins which are partially delineated within the corporate boundary.

HUC 11 Name	HUC 11 (250K) No.	HUC 11 (250K) ID
Middle North Canadian	1534	1523
Lower Cimarron-Skeleton	1545	1534
Deep Fork	1613	2240
Lower Canadian - Walnut	1645	1639
Lower North Canadian	1649	1644
Little	1667	1661

Item 6: Current permit language, Part II, Storm Water Management Program (SWMP) Section 13c, *The Priority Based Monitoring Program: The program shall consist of monitoring stream segments to determine watershed priority areas. Two monitoring levels have been established using water quality standards violation rates to categorize the applicable stream segments. Segments which exhibited a violation rate of <15% are considered Level I and segments which exhibited a violation rate of ≥ 15% are categorized as a Level II stream segment. Level I stations will be established to confirm/refute the historical monitoring data in relation to State Water Quality Standards violations detected during the Watershed Characterization Program. Level I segment will typically consist of monitoring select parameters at the original monitoring station established within the applicable watershed which will generally be the original station monitored during the Watershed Characterization Program. Stream data collected for Level I monitoring efforts will be utilized to refute/confirm previous evaluations, however if Water Quality Standards violations are confirmed, the stream segment may be remanded to a Level II monitoring effort. Level II segments will be monitored at several stations within the watershed to acquire information on select parameters at multiple stations in the watershed. This information will be used to assist in the identification of priority areas within the watershed. Each monitoring level (I and Level II) will consist of directed monitoring of onsite field chemistry, laboratory samples or biological collections, when applicable. Each monitoring effort may require different levels of data generation.*

- **Proposed permit language change**, Part II, Storm Water Management Program (SWMP), Section 13c: The Priority Based Monitoring Program: The program shall consist of monitoring stream segments to determine watershed priority areas. Two monitoring levels have been established using water quality standards violation rates to categorize the applicable stream segments. Segments which exhibited a violation rate of <15% are considered Level I and segments which exhibited a violation rate of ≥ 15% are categorized as a Level II stream segment. Level I stations will be established to confirm/refute the historical monitoring data in relation to State Water Quality Standards violations detected during the Watershed Characterization Program **(or other agency supplied information)**. Level I segment will typically consist of monitoring select parameters at the original station monitored during the Watershed Characterization Program. Stream data collected for Level I monitoring efforts will be utilized to refute/confirm previous evaluations. Level II segments will be monitored at several stations within the watershed to acquire information on select parameters at multiple stations in the watershed. This information will be used to assist in the identification of priority areas within the watershed. Each monitoring level (I and Level II) will consist of onsite field chemistry, laboratory samples, biological collections or visual observations, when applicable. Each monitoring effort may require different levels of data generation. (Emphasis added)

- **Comment 6**: SWQ has monitoring scheduled through May 2020. At that point, the project objectives will be completed and the project closed. A comprehensive compilation of relevant biological collections and water quality information collected for each permit year will be provided in the Oklahoma City MS4 Annual Report. SWQ will submit a list of monitoring locations, collected information, summary data sheets and assessments regarding the status of the assessed reaches within the scope of relevant criteria in the 2020 Oklahoma City Annual Report. See schedule details in Item 12.

Item 7: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 3: *Flood Control Projects and Structural Controls.*

a. *Update Capital Improvement Program list for the City of Oklahoma City proposed General Obligation Bond authorization for 2007.*

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 3: Flood Control Projects and Structural Controls.
  a. Update Capital Improvement Program list for the City of Oklahoma City's **current and proposed** General Obligation Bond authorizations. (Emphasis added)

Item 8: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 7(b): *Public Outreach.*

a. *Install an average of 500 curb markers annually using volunteers and City employees.*

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 7(b): Public Outreach.
  a. **Inspect, install or re-install** an average of 500 curb markers annually using volunteers and City employees. Identification of embossed storm drains will count towards that annual total. (Emphasis added)

Item 9: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 10(b): *Pollution Complaint and Spills Response Program.*

a. *Continue to respond as technical support for the City of Oklahoma City Hazardous Materials Unit on hazardous material incidents.*

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 10(b): Pollution Complaint and Spills Response Program.
  a. Continue to respond as technical support for City of Oklahoma City **emergency responders to incidents which may cause or contribute to storm water contamination**.(Emphasis added)

Item 10: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 11(a): *Floatables.*

a. *Update the study targeting structural controls for floatables, including an update in annual report..**(Emphasis added)***

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 11(a): Floatables.
  a. Update the study targeting structural controls for floatables, including an update in annual report.(extra period removed)

Item 11: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 12(a-c): *Wet Weather Analytical.*

SWMP Component	*Activity*	*Responsible Permittee(s)*	*Date Due/Frequency*
12. Wet Weather Analytical	*a. Submit a revised monitoring list of three (3) representative monitoring locations.*	*All*	*Annually*
	b. Conduct monitoring to characterize storm water discharges at three (3) representative monitoring locations at a frequency of two (2) times per permit year.	*All*	*Annually*
	c. Submit, in the annual report, analytical summary reports detailing constituent loadings from representative storm events during the permit year.	*All*	*Annually*

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 12: Trend and Load Based Monitoring Program.

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
12. Trend and Load Based Monitoring	a. Submit a revised monitoring list of 14 selected monitoring locations with target dates for each station to be activated.	All	6 months from the effective date of the permit
	b. Year 1 - Install, calibrate and activate 5 water quality monitoring stations	All	Year 1 Annual Report
	c. Year 2- Install, calibrate and activate 5 water quality monitoring stations	All	Year 2 Annual Report
	d. Year 3- Install, calibrate and activate 5 water quality monitoring stations	All	Year 3 Annual Report
	e. After station installation and calibration, provide continuous monitoring	All	Annually
	f. Submit, in the annual report, a summary of all analytical results and calculated discharge results for each station monitored.	All	Annually
	g. Provide a comprehensive summary report which details the pollutant loadings and any trends realized through statistical analysis.	All	Year 5 Annual Report

Item 12: Current permit language, Part III, Schedules for Implementation and Compliance, Section A, Component 13(a-h): *Priority Based Monitoring Program.*

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
13. Priority Based Monitoring Program	a. Update the SWMP to include the Priority Based Monitoring Program	All	6 months from the effective date of the permit
	b. Submit a schedule for completion of each major monitoring milestone.	All	6 months from the effective date of the permit
	c. Complete Part 1 monitoring requirement	All	June 1, 2013
	d. Complete Part 2 monitoring requirement	All	September 1, 2014
	e. Complete Part 3 monitoring requirement	All	December 1, 2015, Annually
	f. Complete Part 4 monitoring requirement	All	March 1, 2017
	g. Provide a comprehensive compilation of relevant biological collections and water quality information, if applicable, collected for each permit year.	All	Annually
	h. Based on results of the Priority Based Monitoring Program, submit a list of monitoring locations, collected information, summary data sheets and assessments regarding the status of the assessed reaches within the scope of relevant criteria for data collected through April 30 of odd-numbered years.	All	Every two (2) years starting September 2013

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 13(a-g): Priority Based Monitoring Program.

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
13. Priority Based Monitoring Program	a. Update the SWMP to specify the remaining components of the Priority Based Monitoring Program	All	6 months from the effective date of the permit
	b. Submit a schedule according to completion of each major monitoring milestone – 6 months from the effective date of the permit.	All	6 months from the effective date of the permit

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
	~~c. Completion of Part 5 monitoring requirements~~	~~All~~	~~January 17, 2018~~
	~~d. Completion of Part 6 monitoring requirements~~	~~All~~	~~March 13, 2019~~
	e. Completion of Part 7 monitoring requirements	All	May 6, 2020
	f. Provide a comprehensive compilation of relevant biological collections and water quality information, if applicable, collected for each permit year.	All	Annually
	g. Based on results of the Priority Based Monitoring Program, submit a list of monitoring locations, collected information, summary data sheets and assessments regarding the status of the assessed reaches within the scope of relevant criteria. Submitted with the 2020 Oklahoma MS4 Annual Report.	All	Submitted with the 2020 Annually Report

Item 13: Current permit language. Part III, Schedules for Implementation and Compliance, Section A, Component 14(a-f): Illicit Discharge Detection and Elimination Program.

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
14. Illicit Discharge Detection and Elimination Program	*a. Complete field screening, 100% of the selected 554 monitoring locations*	*All*	*December 1, 2013*
	b. Complete field screening, cumulative 33% of the selected 554 monitoring locations	*All*	*December 1, 2014*
	c. Complete field screening, cumulative 33% of the selected 554 monitoring locations	*All*	*December 1, 2015*
	d. Complete field screening, cumulative 33% of the selected 554 monitoring locations	*All*	*December 1, 2016*
	e. Complete field screening, cumulative 100% of the selected 554 monitoring locations	*All*	*December 1, 2017*

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
	f. Submit field screening summaries including follow-up reports and summary statistics in the Annual Report.	*All*	*Annually*

- **Proposed permit language change**, Part III, Schedules for Implementation and Compliance, Section A, Component 14(a-f): Illicit Discharge Detection and Elimination Program.

SWMP Component	Activity	Responsible Permittee(s)	Date Due/Frequency
14. Illicit Discharge Detection and Elimination Program	a. Complete field screening, cumulative 25% of the selected 554 monitoring locations (Year 1)	All	December 1, 2018
	b. Complete field screening, cumulative 25% of the selected 554 monitoring locations (Year 2)	All	December 1, 2019
	c. Complete field screening, cumulative 25% of the selected 554 monitoring locations (Year 3)	All	December 1, 2020
	d. Complete field screening, cumulative 25% of the selected 554 monitoring locations (Year 4)	All	December 1, 2021
	e. Complete field screening, 100% of the selected 554 monitoring locations (Year 5)	All	December 1, 2022
	f. Submit field screening summaries including follow-up reports and summary statistics in the Annual Report.	All	Annually

- **Comment 7**: Part III SWMP Component 14, Illicit Discharge Detection and Elimination. Progress has been made over the past permit terms to provide comprehensive responses to detections of non-storm water discharges. SWQ realizes that immediate response is often needed when excessive parameter detections are measured. To provide additional time for near immediate response, SWQ proposes reducing the number of stations monitored each permit year. This proposal requires OKC to monitor 25% of the stations year 1, 2, 3, and 4. Year 5 will consist of monitoring each of 545 stations to determine if follow-up efforts have been successful. During the years which reduced monitoring is required, personnel will use historically collected information to determine problematic areas and direct additional testing and investigation.

Item 14: Current permit language, Part V, Monitoring and Reporting Requirements, Section B, Item 3a Wet Weather Analytical Monitoring Requirements:

- **Comment 8:** Oklahoma City requests the removal of the Wet Weather Analytical Monitoring Requirement and proposes replacement with the Trend and Load Based Monitoring Program. Historically, SWQ has focused on individual storm quality with the Wet Weather Analytical Monitoring. Although the event mean concentration information provided by this program is good for some uses, it does not provide sufficient information to determine the annual pollutant load or if any long-term trends are occurring with programmatic changes. The Trend and Load Based Monitoring Program will assist Oklahoma City by providing the data needed to calculate practical load estimations for specific parameters of interest with reasonable certainty. This program is intended to bring the monitoring efforts to a level which active and future TMDL's will require for assessment of pollutant loading (excluding bacteria or other parameters which require grab sampling or in-situ measurement). Through continuous monitoring, the natural flux, which often occurs in non-point source situations, is accounted for. The program considers all hydrologic conditions through flow paced sampling efforts. This program will be instituted in representative drainages throughout the City. Select parameters will be monitored continuously. Flow weighted samples will be collected at a frequency necessary to meet appropriate holding times and analytical procedures will be in accordance to 40 CFR Part 136. Oklahoma City will use automatic samplers, sondes and flow sensors to collect continuous flow weighted samples and calculate discharge. Duration of the sampling event, total discharge, total rainfall, and constituent concentrations will be recorded for each sampling event. Oklahoma City selected total suspended solids, total nitrogen and total phosphorus as the "primary parameters" to continuously monitor. Other parameters termed "secondary parameters" may be added if supporting data is required. Oklahoma City realizes the capital investment and station development will take several years to bring the anticipated 14 stations to active status.

- **Proposed permit language change**, Part V, Monitoring and Reporting Requirements, Section B, Trend and Load Based Monitoring Program:
  A. Monitoring shall be conducted at in-stream monitoring locations with selected representative drainages in Oklahoma City Corporate boundaries to provide the parameter data and flow data necessary to calculate annual constituent loadings. Analytical monitoring will be conducted continuously (or as site conditions allow). Stations will be selected which represent Oklahoma City geographically and represent the various land uses which contribute to stream pollutant loading.
  B. Quantitative data will be used to calculate annual loading. Records shall be maintained of all analytical results, each date and duration of the sampling period (in hours), an estimated volume of the discharge sampled (in cubic feet), the estimated annual pollutant load, and the number of subsamples acquired for the composite sample.
  C. Composite Samples – Flow weighted composite samples shall be collected as follows:
  Composite Method – Flow weighted composite samples shall be collected automatically. In the cases that a parameter of interest requires a grab sample, that method must be used and the frequency of collection may be reduced to meet the data quality objectives established in applicable Quality Assurance Project Plans. The flow weighted sample may be composited in the field or laboratory and methods must adhere to standard operating procedures.

D. Sampling Duration – Each sample episode duration shall not exceed the shortest holding time of the parameters monitored. As discharge will increase or decrease with seasonal changes and precipitation patterns, samples may be collected at various intervals as sample volume demands.
E. Aliquot Collection – the minimum aliquot collection required for a composite sample will be based on the sample quantity needed for analysis purposes and any quality assurance purposes. At a minimum, a composite sample must consist of at least three aliquots which provide sufficient volume for the laboratory analysis of the selected parameter.
F. Analytical Methods: Analysis and collection of samples shall be done in accordance with the methods specified at OAC 252:606-1-3(b)(7) adopting and incorporating by reference 40 CFR Part 136. Where an approved Part 136 method does not exist, any available method may be used unless a particular method or criteria for method selection (such as sensitivity) has been specified in the permit.

Item 15: Current permit language, Part V, Monitoring and Reporting Requirements, Table V.B. Analytical Monitoring Requirements:

	REPORT FOR EACH MONITORING PERIOD (each sample type)			*SAMPLE TYPE(S)*	
	Min.	*Ave.*	*Max*	*Grab*	*Composite*
Biochemical Oxygen Demand (BOD5) (mg/L)		Yes	Yes		Yes
Chemical Oxygen Demand (COD) (mg/L)		Yes	Yes		Yes
Oil and Grease (mg/L)		Yes	Yes	Yes	Yes
Total Suspended Solids (TSS) (mg/L)		Yes	Yes		Yes
Total Dissolved Solids (TDS) (mg/L)		Yes	Yes		Yes
Total Nitrogen (mg/L)		Yes	Yes		Yes
Total Kjeldahl Nitrogen (TKN) (mg/L)		Yes	Yes		Yes
Total Phosphorus (mg/L)		Yes	Yes		Yes
Dissolved Phosphorus (mg/L)		Yes	Yes		Yes
Total Cadmium (ug/L) (MQL 1 ug/L)		Yes	Yes		Yes
Total Copper (ug/L) (MQL 10 ug/L)		Yes	Yes		Yes
Total Lead (ug/L) (MQL 5 ug/L)		Yes	Yes		Yes
Total Zinc (ug/L) (MQL 20 ug/L)		Yes	Yes		Yes
E. coli (colonies/100 ml)		Yes	Yes	Yes	
pH (S.U.)	Yes		Yes	Yes	
Hardness (as CaCO3) (mg/L)	Yes	Yes	Yes	Yes	
Water Temperature (Degree C)	Yes	Yes	Yes	Yes	
Total Mercury (ug/L) (MQL 0.2 ug/L)		Yes	Yes		Yes
Total Thallium (ug/L) (MQL 10 ug/L)		Yes	Yes		Yes

- **Proposed permit language change**, Part V, Monitoring and Reporting Requirements, Table V.B. Analytical Monitoring Requirements:

MONITORING PARAMETERS		*REPORT FOR EACH MONITORING PERIOD (each sample type)*			*SAMPLE TYPE(S)*
Parameter	*Priority	*No. Samples*	*Total Discharge*	*Annual Load*	
Biochemical Oxygen Demand (BOD5) (mg/L)	Secondary	*	*	*	Composite
Chemical Oxygen Demand (COD) (mg/L)	Secondary	*	*	*	Composite
Oil and Grease (mg/L)	Secondary	*	*	*	Grab
Total Suspended Solids (TSS) (mg/L)	Primary	Yes	Yes	Yes	Composite
Total Dissolved Solids (TDS) (mg/L)	Secondary	*	*	*	Composite
Total Nitrogen (mg/L)	Primary	Yes	Yes	Yes	Composite
Total Kjeldahl Nitrogen (TKN) (mg/L)	Secondary	*	*	*	Composite
Total Phosphorus (mg/L)	Primary	Yes	Yes	Yes	Composite
Dissolved Phosphorus (mg/L)	Secondary	*	*	*	Composite
Total Cadmium (µg/L) (MQL 1 µg/L) 1	Secondary	*	*	*	Composite
Total Copper (µg/L) (MQL 10 µg/L) 1	Secondary	*	*	*	Composite
Total Lead (µg/L) (MQL 5 µg/L) 1	Secondary	*	*	*	Composite
Total Zinc (µg/L) (MQL 20 µg/L) 1	Secondary	*	*	*	Composite
E. coli (colonies/100 ml)	Secondary	*	*	*	Grab
pH (S.U.)	Secondary	*	*	*	Grab
Hardness (as CaCO3) (mg/L)	Secondary	*	*	*	Composite
Water Temperature (°C)	Secondary	*	*	*	Composite
Total Mercury (µg/L) (MQL 0.2 µg/L) 1	Secondary	*	*	*	Composite
Total Thallium (µg/L) (MQL 10 µg/L) 1	Secondary	*	*	*	Composite
Discharge (CFS)	Primary	*	Yes	*	Continuous

*Primary parameters are selected for long-term continuous monitoring as the key constituents for determining annual loading and trends. Secondary parameters may be added as needed to support additional monitoring needs.

Item 16: Current permit language, Part VIII, Definitions: *Flow-Weighted Composite Sample*

G. Flow-Weighted Composite Sample means a composite sample consisting of a mixture of aliquots collected at a constant time interval, where the volume of each aliquot is proportional to the flow rate of the discharge.

- **Proposed permit language change**, Part VIII, Definitions: Flow-Weighted Composite Sample.

G. Flow-Weighted Composite Sample means a composite sample consisting of a mixture of aliquots collected at a constant time or volume interval, where the volume of each aliquot is proportional to the flow rate of the discharge or a constant volume is used and collected after a pre-determined discharge rate has been measured.

- **Comment 9:** Clarification of the definition provides expansion for the permittee to collect time proportional samples or flow proportional samples with equal or variable aliquot volumes.

Item 17: Current permit language, Authorization to Discharge (signature page of the permit cover) reads *Co-permittees are hereby authorized to discharge storm water from the Municipal Storm Separate Storm Sewer System (MS4) to the following receiving waters:*

Canadian River, Oklahoma River, Coon Creek, Deep Fork River of the Canadian River, Deer Creek, Hefner Lake, Hog Creek, North Canadian River, Overholser Lake, Pecan Creek, Stanley Draper Lake, and Little River.

- Proposed permit language change. Authorization to Discharge (signature page of the permit cover).

Oklahoma City and co-permittees are hereby authorized to discharge storm water from the Municipal Storm Separate Storm Sewer System (MS4) to the following receiving waters:

- **Comment 10:** Oklahoma City and ODEQ discussed the listed receiving waters currently specified in the 2013 MS4 permit. The following table lists all 2016 Integrated Report water body segments within the Oklahoma City corporate boundary. Some stream segments only partially fall within the boundaries and may be facilitated by storm drainage from other entities (such as Tinker Airforce Base or Forest Park). These segments have been highlighted and should be considered for removal.

WBID	Name	MS4 in Watershed (Y/N) Direct Discharge or Significant MS4	Comments
OK520510000255_00	Wes Watkins Reservoir	No	
OK520510000290_00	Deer Creek, South	No	
OK520510000310_00	Deer Creek, North	No	
OK520520000010_10	Canadian River, North	Yes	
OK520520000010_20	Canadian River, North	Yes	
OK520520000010_30	Canadian River, North	Yes	
OK520520000010_40	Canadian River, North	Yes	
OK520520000010_50	Canadian River, North	Yes	
OK520520000030_00	Choctaw Creek	No	
OK520520000035_00	Choctaw Creek, Unnamed Tributary of	No	
OK520520000040_00	Jones Creek	No	
OK520520000050_00	Silver Creek	Yes	
OK520520000060_00	Crutcho Creek	No	
OK520520000070_00	Crutcho Creek	No	Tinker Airforce Base, review for removal

WBID	Name	MS4 in Watershed (Y/N) Direct Discharge or Significant MS4	Comments
OK520520000080_00	Soldier Creek	No	
OK520520000090_00	Crutcho Creek	Yes	
OK520520000110_00	Cherry Creek	Yes	
OK520520000140_00	Thompson Lake	No	
OK520520000150_00	Crooked Oak Creek	Yes	
OK520520000160_00	Lightning Creek	Yes	
OK520520000170_00	Brock Creek	Yes	
OK520520000190_00	Crutcho Creek, Unnamed Tributary of	Yes	
OK520520000210_00	Canadian River, North	Yes	
OK520520000230_00	Campbell Creek	Yes	
OK520520000240_00	Mustang Creek	Yes	
OK520520000250_00	Canadian River, North	Yes	
OK520520000260_00	Overholser Lake	Yes	
OK520520000270_00	Ramsey Lake	Yes	
OK520520000280_00	Bluff Creek Canal (Hefner L)	Yes	
OK520520000290_00	Soldier Creek, Unnamed Trib. of	No	Tinker Airforce Base, review for removal
OK520520000300_00	West Ramp Branch!	No	Tinker Airforce Base, review for removal
OK520520000350_00	Airport Heights Creek!	Yes	
OK520530000010_00	Canadian River, North	Yes	
OK520530000020_00	Wilshire Creek	No	
OK520530000030_00	Shell Creek	No	
OK520530000270_00	Perimeter Creek!	Yes	
OK520530000280_00	Neighborhood Creek!	Yes	
OK520610010010_20	Canadian River	No	
OK520610010220_00	Lost Creek	Yes	
OK520610010230_00	Cow Creek	Yes	
OK520610020010_00	Canadian River	No	
OK520610020050_00	Bennett Creek	No	
OK520610020060_00	Foreman Creek	No	
OK520610020070_00	Dry Creek	No	

WBID	Name	MS4 in Watershed (Y/N) Direct Discharge or Significant MS4	Comments
OK520710010010_00	Canadian River, Deep Fork	No	
OK520710010020_00	Smith Creek	No	
OK520710010030_00	Coon Creek	No	
OK520710010040_00	Hiwassee Creek	No	
OK520710020010_00	Canadian River, Deep Fork	No	
OK520710020020_00	Arcadia Lake	No	
OK520710020040_00	Tinker Creek	No	
OK520710020050_00	Wynn Creek	Yes	
OK520710020060_00	Canadian River, Deep Fork	Yes	
OK520710020070_00	Britton Creek	Yes	
OK520710020075_00	Deep Fork, Unnamed Tributary of	Yes	
OK520710020100_00	Forest Park Creek	No	Forest Park, review for removal
OK520710020110_00	Northeast Creek	Yes	
OK520710020120_00	Northeast Lake (Zoo)	Yes	
OK520710020130_00	Springlake Creek	Yes	
OK520710020140_00	Guy James Creek	Yes	
OK520710020150_00	Nichols Creek	Yes	
OK520710020160_00	Belle Isle Creek	Yes	
OK520800020080_00	Pecan Creek	No	
OK520810000030_00	Hog Creek	Yes	
OK520810000040_00	Hog Creek, West Branch	Yes	
OK520810000100_00	Elm Creek	No	
OK520810000110_00	Elm Creek, East	No	
OK520810000130_00	Stanley Draper Lake	Yes	
OK520810000140_00	Elm Creek, West	Yes	
OK520810000150_00	Kitchen Creek	Yes	
OK520810000160_00	Kitchen Lake	No	
OK620910040100_00	Chisholm Creek	Yes	
OK620910040110_00	Edmond Creek	Yes	

WBID	Name	MS4 in Watershed (Y/N) Direct Discharge or Significant MS4	Comments
OK620910040120_10	Deer Creek	Yes	
OK620910040140_00	Bluff Creek	Yes	
OK620910040150_00	Dry Creek	Yes	
OK620910040170_00	Spring Creek	Yes	
OK620910040175_00	Hefner Canal	Yes	
OK620910040180_00	Ski Island Lake	Yes	
OK620910040190_00	Silver Lake	Yes	
OK620910040200_00	Hefner Lake	Yes	No Direct Discharges
OK620910040210_00	Walnut Creek	Yes	
OK620910040230_00	Chapel Hill Creek	Yes	
OK620910040240_00	Piedmont Creek	No	
OK620910040250_00	Spring Creek	No	
OK620910040260_00	Northwood Lake	No	

Item 18: Wet Weather Analytical Monitoring Data – Calculated Loading 2012-2017 (Appendix AP, Oklahoma City Storm Water Management Plan March 2018), ODEQ requested the appendix sorted by station. These data have been provided in this document and will be emailed to ODEQ in Excel format.

Station	Date	Total Discharge Measured (Ft^3)	Total Oil & Grease	*Fecal Coliform / E. coli	BOD5 (lbs.)	COD (lbs.)	**Diazinon (lbs.)	TDS (lbs.)	TSS (lbs.)	Total Nitrogen (lbs.)	NO_2/NO_3 N. (lbs.)	TKN (lbs.)	Dissolved Phosphorus (lbs.)	Total Phosphorus (lbs.)	Total Hardness (lbs.)	Total Cadmium (lbs.)	Total Copper (lbs.)	Total Pb (lbs.)	Total Hg (lbs.)	Total Tl (lbs.)	Total Zn (lbs.)
616	16-Jul-14	58490.4	27.22	N/A	157.06	546.63	N/A	1515.98	1264.53	21.50	5.50	16.00	1.52	2.19	1129.70	0.0019	1031.30	0.3160	0.0007	0.0018	0.6960
616	5-Nov-13	314856	87.10	N/A	286.41	2354.01	N/A	1687.04	3060.22	44.79	9.08	35.70	0.20	5.69	NR	0.0098	0.4826	0.8180	0.0039	0.0098	4.6884
616	13-Dec-13	489756	147.08	N/A	323.45	1556.20	N/A	2380.07	2557.05	20.41	7.29	13.12	4.94	11.02	1464.66	0.0153	0.2899	0.4516	0.0061	0.0153	2.1054
616	14-Sep-16	74808	21.44	N/A	89.95	382.19	N/A	848.27	151.48	24.05	15.01	9.04	0.21	NR	247.49	0.0012	0.0368	0.0219	0.0009	NR	0.2377
616	4-Oct-17	383100	107.65	N/A	243.46	477.37	N/A	1265.04	2124.31	42.65	23.87	18.86	0.24	65.16	1241.17	0.0048	0.2673	0.4010	0.0048	0.0119	1.9572
616	19-Dec-17	147888	40.54	N/A	334.47	1170.18	N/A	1474.24	893.76	31.79	9.21	22.57	0.27	5.04	2487.78	0.0018	0.2700	0.1778	0.0018	0.0046	2.1561
754	6-Jun-12	12156	3.45	N/A	8.33	36.35	4.2185E-05	55.29	34.08	1.08	0.54	0.54	0.07	0.10	37.87	0.0008	0.0093	0.0067	0.0002	0.0008	0.0598
754	13-Sep-12	5648.4	1.48	N/A	6.79	49.27	0.000033	37.66	43.64	1.15	0.36	0.79	0.09	0.15	38.71	0.0004	0.0109	0.0095	0.0001	0.0004	0.0679
754	12-Feb-13	12864	3.37	N/A	1.60	51.29	4.4803E-05	97.78	71.33	1.44	0.83	0.64	0.12	0.23	70.53	0.0008	0.0210	0.0186	0.0002	0.0008	0.0008
754	26-Mar-14	11244.72	3.26	N/A	10.58	98.08	N/A	186.36	112.09	0.74	0.70	0.04	0.13	0.32	112.80	0.0007	NR	0.0284	0.0001	0.0004	0.1927
754	3-Nov-14	34376.4	23.35	N/A	19.04	119.94	0.00012765	94.24	156.35	23.09	17.50	5.59	0.44	0.59	124.22	0.0011	0.0291	0.0242	0.0004	0.0011	0.2088
754	22-Oct-15	15595.2	4.36	N/A	13.80	75.79	4.9359E-05	80.65	116.60	2.37	0.97	1.40	0.04	0.26	92.99	0.0005	0.0243	0.0168	0.0002	0.0005	0.1321
754	13-Dec-13	46135.2	12.24	N/A	12.59	83.36	N/A	186.84	126.47	1.13	0.57	0.55	0.31	0.77	107.22	0.0014	0.0204	0.0236	0.0006	0.0014	0.1667
754	8-Mar-16	26868	7.37	N/A	9.51	70.31	N/A	128.90	97.09	1.93	0.50	1.42	0.07	0.35	122.54	0.0008	0.0298	0.0214	0.0003	NR	0.1858
754	8-Mar-16	26868	7.37	N/A	9.51	70.31	N/A	128.90	97.09	1.93	0.50	1.42	0.07	0.35	122.54	0.0008	0.0298	0.0214	0.0003	NR	0.1858
754	16-Sep-16	1276.68	0.35	N/A	NR	2.70	N/A	6.05	1.31	0.08	0.11	0.03	0.00	0.01	4.53	0.0000	0.0010	0.0006	0.0000	0.0000	0.0064

Station	Date	Total Discharge Measured (Ft³)	Total Oil & Grease	*Fecal Coliform / E. coli	BOD5 (lbs.)	COD (lbs.)	**Diazinon (lbs.)	TDS (lbs.)	TSS (lbs.)	Total Nitrogen (lbs.)	NO_3/NO_2 N. (lbs.)	TKN (lbs.)	Dissolved Phosphorus (lbs.)	Total Phosphorus (lbs.)	Total Hardness (lbs.)	Total Cadmium (lbs.)	Total Copper (lbs.)	Total Pb (lbs.)	Total Hg (lbs.)	Total Tl (lbs.)	Total Zn (lbs.)
754	13-Feb-17	89603.04	30.09	N/A	29.03	374.04	0	530.35	915.55	9.17	5.58	3.57	0.32	2.19	473.41	0.0019	0.1362	0.0876	0.0011	0.0028	0.7872
754	4-Oct-17	2383.2	0.68	N/A	1.97	8.61	N/A	11.14	3.42	0.31	0.05	0.26	0.00	0.07	0.74	0.0000	0.0012	0.0007	0.0000	0.0001	0.0070
1320	12-Feb-13	11580	8.44	N/A	7.21	101.01	4.0475E-05	54.83	43.29	0.77	0.33	0.44	0.06	0.18	30.30	0.0007	0.0100	0.0051	0.0001	0.0007	0.0404

Highlighted values include those laboratory results reported at or below the reporting limits (RL). In those cases, the RL was used as the calculating value.

*Grab sample. No loading applied to parameter.

**Diazinon excluded from OKS000101 Permit March 15, 2013. Diazinon may have been measured on subsequent dates in error. In these cases, those data were reported.

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Station	Date	Total Discharge Measured (Ft^3)	Total Oil & Grease	*Fecal Coliform / E. coli	BOD5 (lbs.)	COD (lbs.)	**Diazinon (lbs.)	TDS (lbs.)	TSS (lbs.)	Total Nitrogen (lbs.)	NO_2/NO_3 N. (lbs.)	TKN (lbs.)	Dissolved Phosphorus (lbs.)	Total Phosphorus (lbs.)	Total Hardness (lbs.)	Total Cadmium (lbs.)	Total Copper (lbs.)	Total Pb (lbs.)	Total Hg (lbs.)	Total Ti (lbs.)	Total Zn (lbs.)
85	13-Sep-12	57264	16.02	N/A	34.86	78.49	0.00019837	264.02	41.03	5.78	1.43	4.35	0.29	0.81	85.63	0.0036	0.0210	0.0171	0.0007	0.0036	0.0749
85	12-Feb-13	22716	11.86	N/A	5.66	152.85	0.00016106	124.55	84.92	3.86	1.40	2.46	0.35	0.47	90.58	0.0028	0.0161	0.0062	0.0006	0.0028	0.0821
85	26-Mar-14	13358.4	3.66	N/A	14.98	66.58	N/A	77.40	58.26	2.92	0.83	2.09	0.23	0.27	45.19	0.0004	0.0114	0.0027	0.0002	0.0042	0.0626
85	3-Nov-14	160680	47.85	N/A	85.39	200.22	0.00072279	300.33	355.39	83.57	74.58	8.99	1.67	1.83	260.29	0.0050	0.0440	0.0160	0.0020	0.0050	0.2333
85	5-Nov-15	20296.8	5.82	N/A	15.68	83.46	0.00012646	480.54	41.73	3.03	0.25	3.29	0.01	0.25	139.10	0.0006	0.0103	0.0018	0.0003	0.0006	0.0598
85	13-Dec-15	122628	35.14	N/A	77.17	389.65	N/A	588.30	168.08	4.71	2.51	2.21	1.50	2.50	215.45	0.0038	0.0458	0.0130	0.0015	0.0038	0.1910
85	7-Nov-16	100728	84.10	N/A	60.94	326.34	N/A	363.99	421.10	NR	NR	5.65	0.77	1.70	243.50	0.0013	0.0446	0.0176	0.0013	0.0031	0.3326
85	13-Feb-17	89600.64	24.56	N/A	11.16	240.05	N/A	189.80	848.54	7.60	5.58	2.01	0.17	0.88	218.27	0.0011	0.0402	0.0195	0.0011	0.0028	0.2345
85	4-Oct-17	8070.84	2.22	N/A	9.45	18.61	N/A	46.26	2.97	0.62	0.17	0.45	0.01	0.23	20.11	0.0001	0.0026	0.0005	0.0001	0.0003	0.0075
615	6-Jun-12	1780212	510.21	N/A	1630.4	5989.37	0.00622229	21739.21	10647.78	259.54	89.62	169.70	17.19	34.38	8873.15	0.1109	1.0315	1.3421	0.0222	0.1109	8.8731
616	6-Jun-12	85609.2	25.12	N/A	66.67	272.02	0.00050724	2826.91	512.04	13.49	5.03	8.48	1.33	1.28	586.72	0.0053	0.0752	0.2539	0.0011	0.0053	0.6361
616	13-Sep-12	437820	121.11	N/A	398.26	1391.17	0.00150574	2182.23	1273.88	70.10	17.92	52.10	6.36	11.37	2182.23	0.0273	0.4310	0.9056	0.0055	0.0273	2.7551
616	26-Mar-14	184260	51.55	N/A	282.41	1607.22	N/A	3099.64	1331.70	46.84	11.48	35.36	3.24	9.22	1377.62	0.0057	0.2790	0.3180	0.0023	0.0057	2.3419

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Item 19: ODEQ and Oklahoma City discussed the locations for the Trend and Load Based monitoring program. The specific monitoring stations were selected to represent the City geographically, meet future data needs (selected from impaired stream reaches, historical Wet Weather Characterization stations, or by request from the OKC Drainage Engineering Section). At least one station is located in each HUC 11 within Oklahoma City, and represent land uses which contribute to storm water pollutant loading. Fourteen stations were selected (see table below).

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Site Number	Project Number	Stream Name	OKWBID No.	Legal Description	County	Fire Grid	Atlas	HUC 11 ID#	HUC Name
616	TLBM616	Unnamed Tributary to North Canadian River	No WBID	NW/NW/SE/SW T11N R4W, Section 4	Oklahoma	4542	577	1644	Lower North Canadian
654	TLBM654	Mustang Creek	OK520520000240_00	Section 12, T11N R5W	Canadian	3641	608	1523	Middle North Canadian
612	TLBM612	Crooked Oak Creek	OK520520000150_00	Section 12/13, T11N R3W	Oklahoma	4841	620	1644	Lower North Canadian
1560	TLBM1560	Deep Fork River (High Hazard)	No WBID	Section 24, T12N R4W	Oklahoma	4245	454	2240	Deep Fork
617	TLBM617	Airport Heights Creek	OK520520000350_00	NE/NE/NE/NW T11N R4W, Section 12	Oklahoma	4241	614	1644	Lower North Canadian
568	TMDL568	Unnamed Tributary to Little River	No WBID	SW/SE/SE T10N R2W, Section 34	Cleveland	5231	1024	1661	Little
570	TMDL570	Elm Creek	OK520810000100_00	Section 31, T10N R1W	Cleveland	5531	1027	1661	Little
24	TMDL24	Hog Creek	OK520810000030_00	Section 24, T10N R1W	Cleveland	6033	952	1661	Little
629	TLBM629	Campbell Creek	OK520520000230_00	NW/NW/NW Section 16, T11N R4W	Oklahoma	3940	651	1523	Middle North Canadian
562	TLBM562	Cow Creek	OK520610010230_00	NW/NW/NW/NW 10, T10N R4W	Cleveland	4035	852	1639	Lower Canadian - Walnut
TBD	TLBM	Bluff Creek	OK620910040140_00	Section 10, T13N R4W	Oklahoma	4053	132	1534	Lower Cimarron-Skeleton
TBD	TLBM	Deep Fork River	OK520710020060_00	Section 9, T11N R3W	Oklahoma	4950	261	2240	Deep Fork
TBD	TLBM	Lightning Creek	OK520520000160_00	Section 16, T11N R3W	Oklahoma	657	4540	1644	Lower North Canadian

Site Number	Project Number	Stream Name	OKWBID No.	Legal Description	County	Fire Grid	Atlas	HUC 11 ID#	HUC Name
TBD	TLBM	Chisholm Creek	OK520610010230_00	Section 17, T13N R3W	Oklahoma	176	4452	1534	Lower Cimarron-Skeleton

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OKLAHOMA CITY
DEPARTMENT OF PUBLIC WORKS

Item 20: ODEQ and Oklahoma City discussed the request to add the "Optional Permit Requirements for Municipal Construction Activities" as submitted to ODEQ in writing on November 15, 2017. This optional permit provision for municipal construction activities is an alternative for the MS4 operator seeking coverage under the Permit. This provision does not apply to the Oklahoma Turnpike Authority (OTA) or the Oklahoma Department of Transportation (ODOT), who are MS4 operators. Additionally, contractors working for the MS4 operator are not required to obtain separate authorization as long as the contractor does not meet the definition of "construction site operator". MS4s that choose to develop this option will be authorized by the Permit to discharge stormwater and certain non-stormwater from construction activities where the MS4s are the "construction site operators". For MS4s that choose this measure, it shall be part of the SWMP submitted with the initial NOI. You must comply with the requirements in OKR10 Stormwater Discharges from Construction Activities (OKR10).

If you choose not to develop this optional measure, then you must submit a NOI and seek coverage under the DEQ general permit (OKR10) for stormwater discharges from construction activities.

If this optional provision is elected you must include the following in your SWMP.

1. Description of how construction activities will generally be conducted by the MS4. Local conditions and other site-specific considerations must be included in the description.
2. Description of how the MS4 will implement the technology-based requirements to comply with Effluent Limitation Guidelines and Standards for the Construction and Development Point Source Category (ELGs) under Part 450 of 40 CFR, effective February 1, 2010.
3. Description of how the MS4 will ensure that the SWP3 requirements are properly implemented and maintained at the construction site; or how the MS4 will ensure that the contractors obtain separate authorization for stormwater discharges from DEQ for each project; and
4. General Stormwater Pollution Prevention Plan SWP3 conditions and a procedure to include site specific BMPs to account for local considerations.

Basic Contact Information:

Mayor and City Council Members

David Holt, Mayor
James Greiner, Ward One
James Cooper, Ward Two
Larry McAtee, Ward Three
Todd Stone, Ward Four
David Greenwell, Ward Five
JoBeth Hamon, Ward Six
Nikki Nice, Ward Seven
Mark K. Stonecipher, Ward Eight

Mailing Address for Mayor and City Council Members:
200 N. Walker, 3rd Floor
Oklahoma City, OK 73102

City Manager

Craig Freeman, City Manager
Office of the City Manager
200 N. Walker, 3rd Floor
Oklahoma City, OK 73102

Public Works Director

Eric J. Wenger, P.E.
Public Works Director
420 W. Main St., 7th Floor
Oklahoma City, OK 73102

Storm Water Quality Management

Raymond Melton, CPESC, CSI
Environmental Protection Manager
420 W. Main St., 3rd Floor
Oklahoma City, OK 73102
(405) 297-2179, (Primary Contact)

Please contact Mr. Raymond Melton at (405) 297-2179 if you have any questions regarding this letter or if you require additional information.

Sincerely,

Eric J. Wenger, P.E., Director
Department of Public Works

Attachments

Pc: Darian Butler, Oklahoma Turnpike Authority
Tim Tegeler, Oklahoma Department of Transportation
Raymond Melton, Storm Water Quality

Appendix AR: Solid Waste Abatement Program (SWAP) Customer Policy

The City of
OKLAHOMA CITY
Department of Public Works

Public Works Departmental Policy – 18-01

TO: Customers of the City of Oklahoma City
Household Hazardous Waste Facility

FROM: Eric J. Wenger, P.E., Director
Public Works/City Engineer

DATE: November 26, 2018

SUBJECT: Solid Waste Abatement Program (SWAP)

Beginning November 15, 2018, the Household Hazardous Waste Facility is amending the Solid Waste Abatement Program (SWAP) policy which will allow residents the opportunity to shop for products only once per week. This policy change only affects the SWAP Room and will not limit the use of the Household Hazardous Waste Facility disposal services.

Please contact Raymond Melton, Environmental Protection Manager, with any questions at (405) 297-1774.

Appendix AS: SWQ 2025 HAZMAT Rotation List

2025 Hazmat Rotation List

DATE		WEEKLY ROTATION		DATE		WEEKLY ROTATION
2-Jan	9-Jan	Melanie Lawson		3-Jul	10-Jul	Environmental vacant
9-Jan	16-Jan	Jairus Greco		10-Jul	17-Jul	Michael Adams
16-Jan	23-Jan	Vacant Industrial		17-Jul	24-Jul	Sarah Hensley
23-Jan	30-Jan	Phillip Mee		24-Jul	31-Jul	Matthew McCallum
30-Jan	6-Feb	Artisha Hicks		31-Jul	7-Aug	Aaron Sears
6-Feb	13-Feb	Kevin Bahjat		7-Aug	14-Aug	Carlos Johnson
13-Feb	20-Feb	Environmental vacant		14-Aug	21-Aug	Brittany Gutierrez
20-Feb	27-Feb	Michael Adams		21-Aug	28-Aug	Bryan Blalack
27-Feb	6-Mar	Sarah Hensley		28-Aug	4-Sep	Brian Mairet
6-Mar	13-Mar	Matthew McCallum		4-Sep	11-Sep	Josh Adams
13-Mar	20-Mar	Aaron Sears		11-Sep	18-Sep	Bryan Jones
20-Mar	27-Mar	Carlos Johnson		18-Sep	25-Sep	Joseph Billington
27-Mar	3-Apr	Brittany Gutierrez		25-Sep	2-Oct	Alyssa Lusk
3-Apr	10-Apr	Bryan Blalack		2-Oct	9-Oct	Taylor Wiedemann
10-Apr	17-Apr	Brian Mairet		9-Oct	16-Oct	Melanie Lawson
17-Apr	24-Apr	Josh Adams		16-Oct	23-Oct	Jairus Greco
24-Apr	1-May	Bryan Jones		23-Oct	30-Oct	Vacant Industrial
1-May	8-May	Joseph Billington		30-Oct	6-Nov	Kevin Bahjat
8-May	15-May	Alyssa Lusk		6-Nov	13-Nov	Artisha Hicks
15-May	22-May	Taylor Wiedemann		13-Nov	20-Nov	Phillip Mee
22-May	29-May	Melanie Lawson		20-Nov	27-Nov	Environmental vacant
29-May	5-Jun	Jairus Greco		27-Nov	4-Dec	Michael Adams
5-Jun	12-Jun	Vacant Industrial		4-Dec	11-Dec	Sarah Hensley
12-Jun	19-Jun	Kevin Bahjat		11-Dec	18-Dec	Matthew McCallum
19-Jun	26-Jun	Artisha Hicks		18-Dec	25-Dec	Aaron Sears
26-Jun	3-Jul	Phillip Mee		25-Dec	1-Jan	Carlos Johnson

Hazmat Phone 990-6833
Derek Johnson 990-1929
Rebecca Dallen 990-0415
Jimmy Stotts 990-0942
Zach Waldroup 642-6698
Buck Pearson 203-1565
Lyndel Gibson 990-1059

PW Emergency Mgt Liaison:
Mike Love, Jr. 316-4900
mobile: 405-519-7828

Large/complicated Hazmat Incidents must also be reported to OKC Emergency Management by Supervisor: M-F 8-4 call 405-605-8202. After hours call 405-231-2121 and ask for Emergency Management.

Oklahoma Corporation Commission
(For Pipeline and Oil Tank Farm Releases)
Field Ops: 405-585-6737
Emergency: 405-823-0994 (after hours)
After Hours: 800-522-8154
Oklahoma County: Justin Mathis 405-833-0844
Brad Ice: 405-375-5570
Justin Langford: 405-521-4683
Matt Skinner: 405-521-4180

Tom McKay (M-F 8am-5pm only)
US EPA Region 6
Cellular (405) 550-0330
Office (Dallas) - (214) 665-2180
Email- mckay.tom@epa.gov

Oklahoma River Manager:
Jess Shumway 405-297-2773
mobile: 405-479-1049

REV: 11.14.2024

State Contractor Rotation:

EMI 405-282-8510	January - February - March - April
Basin 405-232-5737	May - June - July - August
Boomer 405-417-3333	September - October - November - December

Appendix AT: Local State Licensed Highway Spill Remediators

LOCAL STATE LICENSED HIGHWAY SPILL REMEDIATORS

Basin Environmental & Safety Technologies
8117 Bourbon St.
Oklahoma City, OK 73128
Office: 405-232-5737
Ray Hemphill 405-612-7295
Grant Morris 405-315-7527
Emergency Phone 405-232-5737
Email: er@basinusa.com
*9.3 miles
**No: Explosives, Gases, Oxidizing, Poisons, Radioactive

Boomer Environmental
2800 SE 29th St.
Oklahoma City, OK 73130
Jason Martin 405-417-3333
Jake Bain 405-437-7170
Emergency Phone 405-417-3333
Email: jason@boomerenvironmental.com
*5.2 miles
**No: Radioactive

Environmental Cleanup, Inc.
PO Box 394
Lexington, OK 73051
Jordan Powell 405-677-0565
Emergency Phone 405-677-0565
Email: ecleanupinc@gmail.com
*44.2 miles
**No: Radioactive

Environmental Management, Inc.
5200 NE Highway 33
Guthrie, OK 73044
Terry Bobo 405-282-8510
Emergency Phone 405-282-8510
Email: tbobo@emiok.com
*35.1 miles
**(can address all hazard classes)

Environmental Remediation Specialists
PO Box 6344
Tulsa, OK 74148
Paul Koons 918-625-7004
Ken Duckworth 918-625-6863
Emergency Phone 800-700-0777
Email: paul@ersok.com or ken@ersok.com
*110 miles
**No: Explosives, Radioactive

Oklahoma Hazmat & Remediation LLC
317 S. Scott St.
Del City, OK 73115
Mike Abernathy 405-494-2889
Emergency Phone 405-615-8284
Email: mike@oklahomahazmat.org
*3.8 miles
**No: Radioactive

OKLSHR, LLC dba Lone Star Hazmat Response
Stillwater location:
6909 S. Perkins Rd.
Stillwater, OK 74074 (*58 miles)
Ardmore location:
2071 Cimmaron Rd.
Wilson, OK 73463 (*112 miles)
Headquarters:
115 W. 5th St.
Tyler, TX 75701 (*301 miles)
Office: 903-531-0000
Emergency Phone: 888-942-9628
Email: philip@lonestarhazmat.com
**No: Explosives, Radioactive

Rose Rock Environmental Services, LLC
PO Box 721926, OKC, OK 73172
11901 N. Morgan Rd., Yukon, OK 73099
Office 405-883-1095
John Ausley 405-209-6967
Jonathan Behymer 405-990-4225
Emergency Phone 405-990-4225
Email: jb@roserockenv.com or
john.ausley@roserockenv.com
*21.6 miles
**No: Explosives, Gases, Radioactive

SET Environmental of Oklahoma, Inc.
1100 N. Main St.
Noble, OK 73068
Jon Dysinger 405-872-1400
Emergency Phone 877-437-7455
Email: jdysinger@setenv.com
*28.5 miles
**No: Explosives, Radioactive

Sisk Environmental
409 Maxi Court
Yukon, OK 73099
Floyd Sisk 405-577-6915
Emergency Phone 405-577-6915
Email: floyd@siskenvironmental.com
*15.8 miles
**No: Radioactive

[See reverse for companies with spill cleanup supplies in stock, available for retail purchase.]

Not to be considered an endorsement to purchase services or supplies from these companies. v. 10/01/2024
*Miles from downtown OKC ** Unable to address certain hazard classes of incidents.

LOCAL STATE LICENSED HIGHWAY SPILL REMEDIATORS

The following local companies typically have spill clean-up supplies in stock, available for retail purchase:

Basin Environmental & Safety Technologies
8117 Bourbon St.
Oklahoma City, OK 73128
405-232-5737 or 855-580-2378

Boomer Environmental LLC
2800 SE 29th St.
Oklahoma City, OK 73130
405-417-3333 Jason Martin
Email: jason@boomerenvironmental.com

Grainger Industrial Supply
4314 Will Rogers Parkway
Oklahoma City, OK 73108
800-472-4643

Ritz Safety
4355 W. Reno Ave., Suite B
Oklahoma City, OK 73107
405-943-2002

Rose Rock Products, LLC
PO Box 721926, OKC, OK 73172
11901 N. Morgan Rd., Yukon, OK 73099
Office 405-883-1095
Jonathan Behymer 405-990-4225
Email: jb@roserockenv.com

Not to be considered an endorsement to purchase services or supplies from these companies. v. 10/01/2024

Appendix AU: Generator Status Letters for OKC HAZMAT Responders

The City of
OKLAHOMA CITY
DEPARTMENT OF PUBLIC WORKS

November 19, 2024

Broc Holleyman, President
Basin Environmental &
Safety Technologies
8117 Bourbon Street
Oklahoma City, OK 73128

RE: Authorization to Assume Generator Status for the City of Oklahoma City

Dear Mr. Holleyman:

In response to your request, Mr. Broc Holleyman with Basin Environmental & Safety Technologies may function in the capacity of generator with regard to property waste classification, representation, shipment and disposal, and to otherwise act as the City's agent to characterize, ship, dispose, and otherwise represent all waste streams in accordance with all local, State, and Federal rules and regulations.

Basin Environmental & Safety Technologies is required to provide the City with copies of all documents executed in accordance with this authorization. If you should have any questions, please contact Derek Johnson at (405) 297-1517.

Sincerely,

Debbie Miller, P.E., Director
Public Works/City Engineer

Attachments

Pc: Derek Johnson, Public Works, Storm Water Quality

420 W. Main, Suite 700, Oklahoma City, OK• 405/297-2581 • FAX 405/297-2117

The City of
OKLAHOMA CITY
DEPARTMENT OF PUBLIC WORKS

November 19, 2024

Jason Martin, President
Boomer Environmental LLC
2800 SE 29th Street
Oklahoma City, OK 73129

RE: Authorization to Assume Generator Status for the City of Oklahoma City

Dear Mr. Martin:

In response to your request, Mr. Jason Martin, Eric Standridge, Jake Bane, Donald Wyatt with Boomer Environmental LLC may function in the capacity of generator with regard to property waste classification, representation, shipment and disposal, and to otherwise act as the City's agent to characterize, ship, dispose, and otherwise represent all waste streams in accordance with all local, State, and Federal rules and regulations.

Boomer Environmental LLC is required to provide the City with copies of all documents executed in accordance with this authorization. If you should have any questions, please contact Derek Johnson at (405) 297-1517.

Sincerely,

Debbie Miller

Debbie Miller P.E., Director
Public Works/City Engineer

Attachments

Pc: Derek Johnson, Public Works, Storm Water Quality

420 W. Main, Suite 700, Oklahoma City, OK• 405/297-2581 • FAX 405/297-2117

The City of
OKLAHOMA CITY
DEPARTMENT OF PUBLIC WORKS

November 19, 2024

Terry Bobo, President
Environmental Management Inc.
PO Box 700
Guthrie, OK 73044

RE: Authorization to Assume Generator Status for the City of Oklahoma City

Dear Mr. Bobo:

In response to your request, Mr. Terry Bobo with Environmental Management Inc. may function in the capacity of generator with regard to property waste classification, representation, shipment and disposal, and to otherwise act as the City's agent to characterize, ship, dispose, and otherwise represent all waste streams in accordance with all local, State, and Federal rules and regulations.

Environmental Management Inc. is required to provide the City with copies of all documents executed in accordance with this authorization. If you should have any questions, please contact Derek Johnson at (405) 297-1517.

Sincerely,

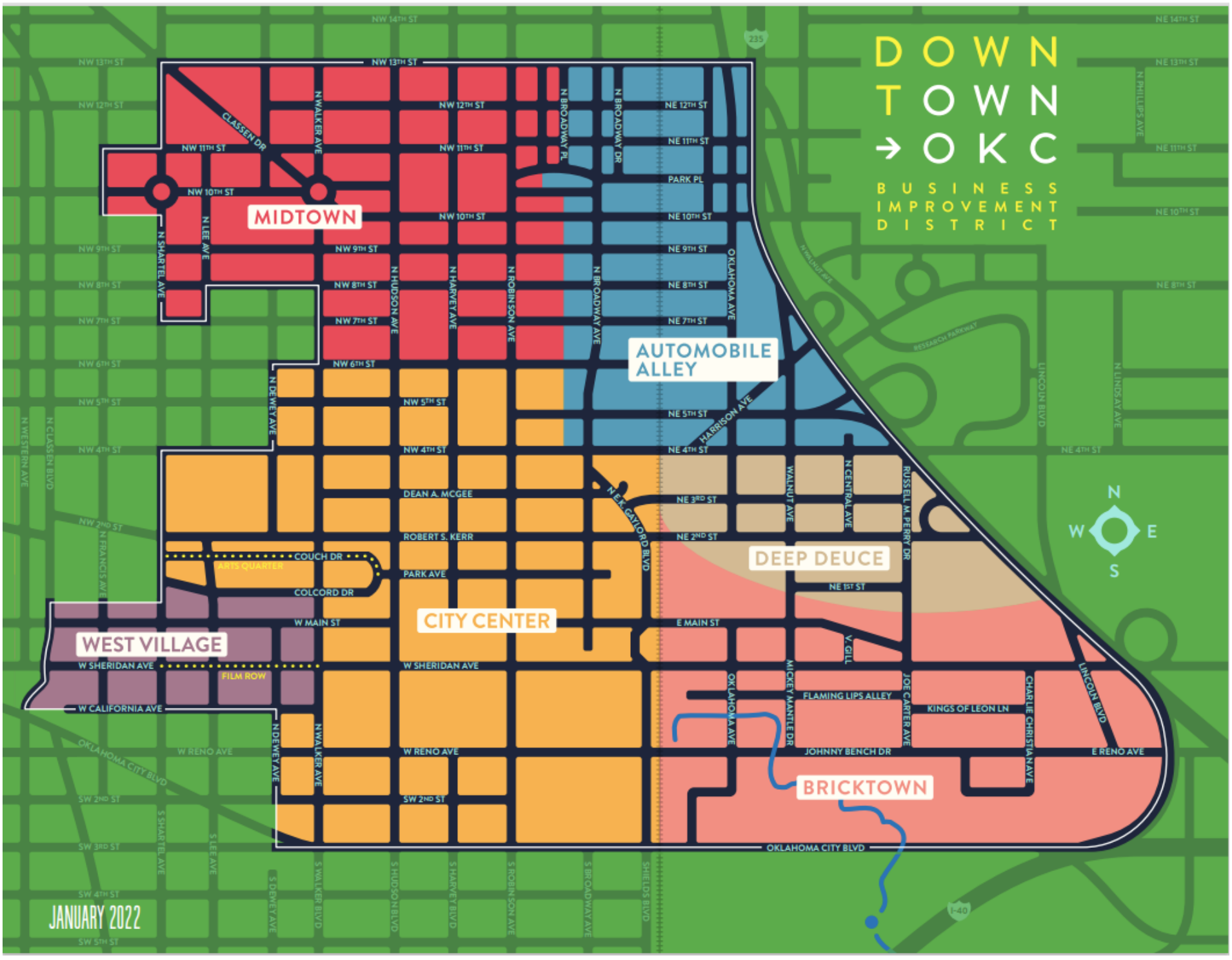
Debbie Miller P.E., Director
Public Works/City Engineer

Attachments

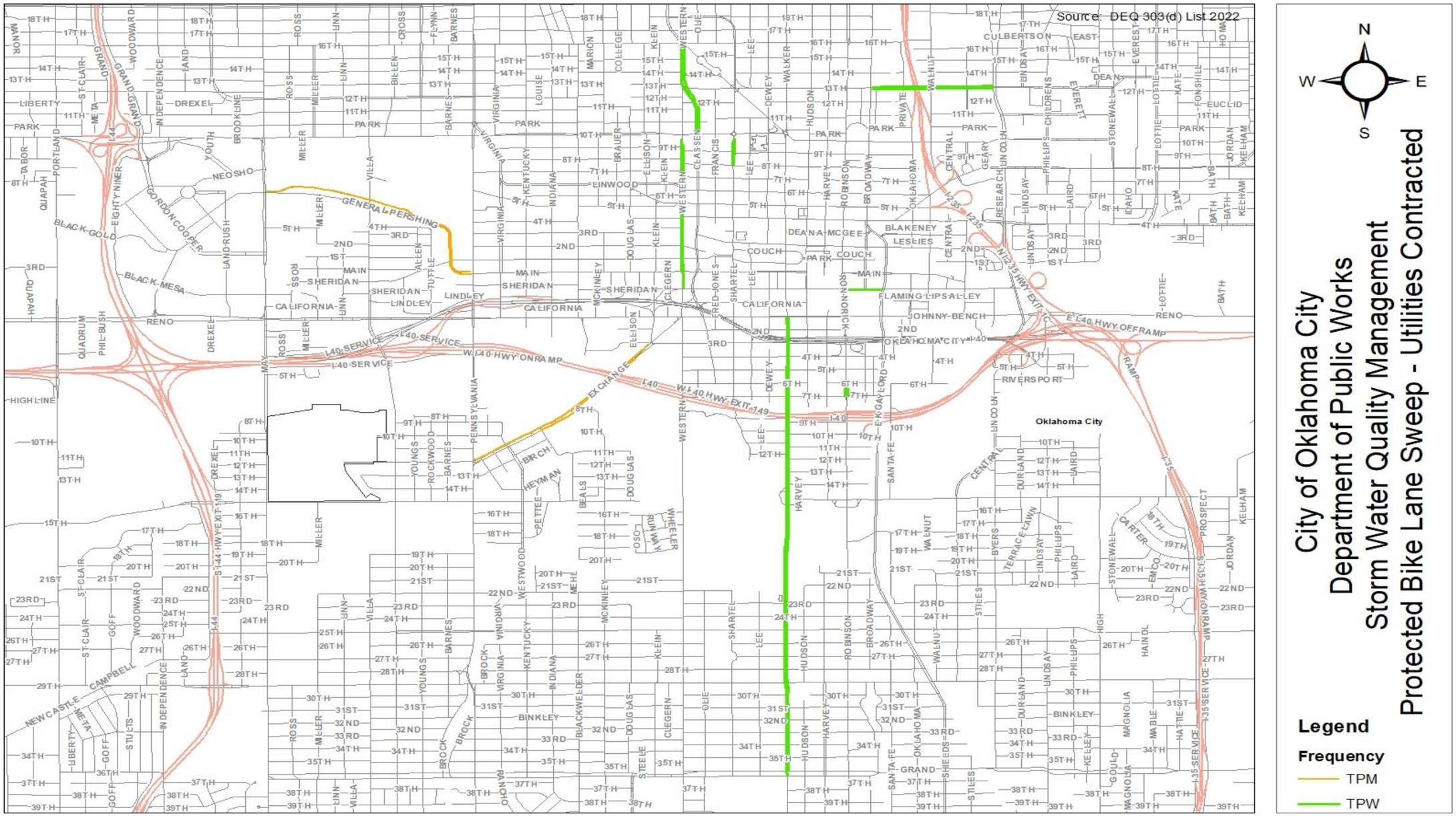
Pc: Derek Johnson, Public Works, Storm Water Quality

420 W. Main, Suite 700, Oklahoma City, OK• 405/297-2581 • FAX 405/297-2117

Appendix AV: Downtown OKC Business Improvement District – Green Team Service Area



Appendix AW: Protected Bike Lane Sweeping Routes/Frequencies – Utility Department Contract



Appendix AX: Protected Bike Lane Sweeping Routes/Frequencies List – Utility Department Contract

Facility Type	Name	Length (Miles)	Classify	Frequency
Bike Lane	S Walker	2.51	Protected	TPW
Bike Lane	Western	0.81	Protected	TPW
Bike Lane	Exchange	0.60	Protected	TPM
Bike Lane	General Pershing	0.72	Protected	TPM
Bike Lane	NW 13th	0.58	Protected	TPW
Bike Lane	Classen	0.52	Protected	TPW
Bike Lane	Classen	0.50	Protected	TPW
Bike Lane	Shartel	0.01	Protected	TPW
Bike Lane	Shartel	0.00	Protected	TPW
Bike Lane	Shartel	0.13	Protected	TPW
Bike Lane	Shartel	0.13	Protected	TPW
Bike Lane	Western	0.69	Protected	TPW
Bike Lane	Exchange	1.06	Protected	TPM
Bike Lane	General Pershing	1.24	Protected	TPM
Bike Lane	NW 13th	0.58	Protected	TPW
Bike Lane	S Walker	2.48	Protected	TPW
Bike Lane	Sheridan	0.18	Protected	TPW
Bike Lane	Robinson	0.07	Protected	TPW
Bike Lane	Robinson	0.07	Protected	TPW

Appendix AY: Pre-Release Notification Form (PRN)

City of Oklahoma City

Non-Storm Water Discharge to the Oklahoma City Storm Sewer System

Owner/Operator:

Address:

City : State Zip Code: Email:

Primary Contact Number:

Primary Contact Name:

Facility Type:

- ☐ New Water Line
- ☐ Water Line Repair
- ☐ Surface Water
- ☐ UST
- ☐ Vault/Utility Manhole/Basement
- ☐ Hydrostatic Pressure Test
- ☐ Ground Water
- ☐ Other: (provide details below)

Release Site:

- ☐ Storm Sewer
- ☐ Creek/Stream
- ☐ Detention/Sediment Basin
- ☐ Other (provide details below):

Receiving Water Name:

XY Coordinate of Discharge Site: (Decimal Degrees):

Release Volume and Rates:

		Unit
Estimated Total Volume (dewatering volume):		
Estimated Daily Release Volume:		
Anticipated Release Rate:		
Release Duration:		

Storm Drain Utility GIS files may be accessed at: Data.okc.gov - Open Data Portal

Storm Drain Size:

Storm Drain Material:

Storm Drain Slope:

Storm Drain Capacity:

Velocity Reduction Methods (provide details below):

Hydrostatic Pre-Release Testing:
(All Must Be Completed)

- ☐ No visible sheen or discoloration
- ☐ Oil & Grease below 15 mg/L Result:
- ☐ TSS does not exceed 45 mg/L Result:
- ☐ pH is 6.5—9.0 S.U. Result:
- ☐ Discharge is free of foreign materials

Note: Owner/Operator may provide a copy of the Oklahoma Corporation Commission Form 1014HD in lieu of completing this section.

Potable Water Line Discharges (Dechlorination):

Testing Frequency:

Dechlorinated Testing Method:

Dechlorinated Method (detail below):

Note: The discharge shall be considered dechlorinated when there is no measurable amount (defined as <0.1 mg/L) of residual/free chlorine (OAC 252:690-3-28).

Must complete both sides of this document

Revision 8/2/2024

City of Oklahoma City

Non-Storm Water Discharge to the Oklahoma City Storm Sewer System

Oklahoma City's Municipal Separate Storm Sewer System (MS4) Discharge Permit authorizes the release of certain non-storm water from potable and non-potable water sources. Operators of releases or discharges which use the City MS4, such as from hydrostatic water testing of pipelines, surface waters, groundwater, vault, or basement/crawl spaces shall complete this form to notify the City of releases which may impact the operation of the MS4. Best practices shall be listed to ensure the operator has considered the quality and quantity of the planned release/discharge event. Best practices must be in place at the time of the event to ensure that these activities eliminate or reduce impacts to aquatic resources, storm water infrastructure, and prevent localized or downstream flooding.

Minimum Best Practices (Post Document Submission)

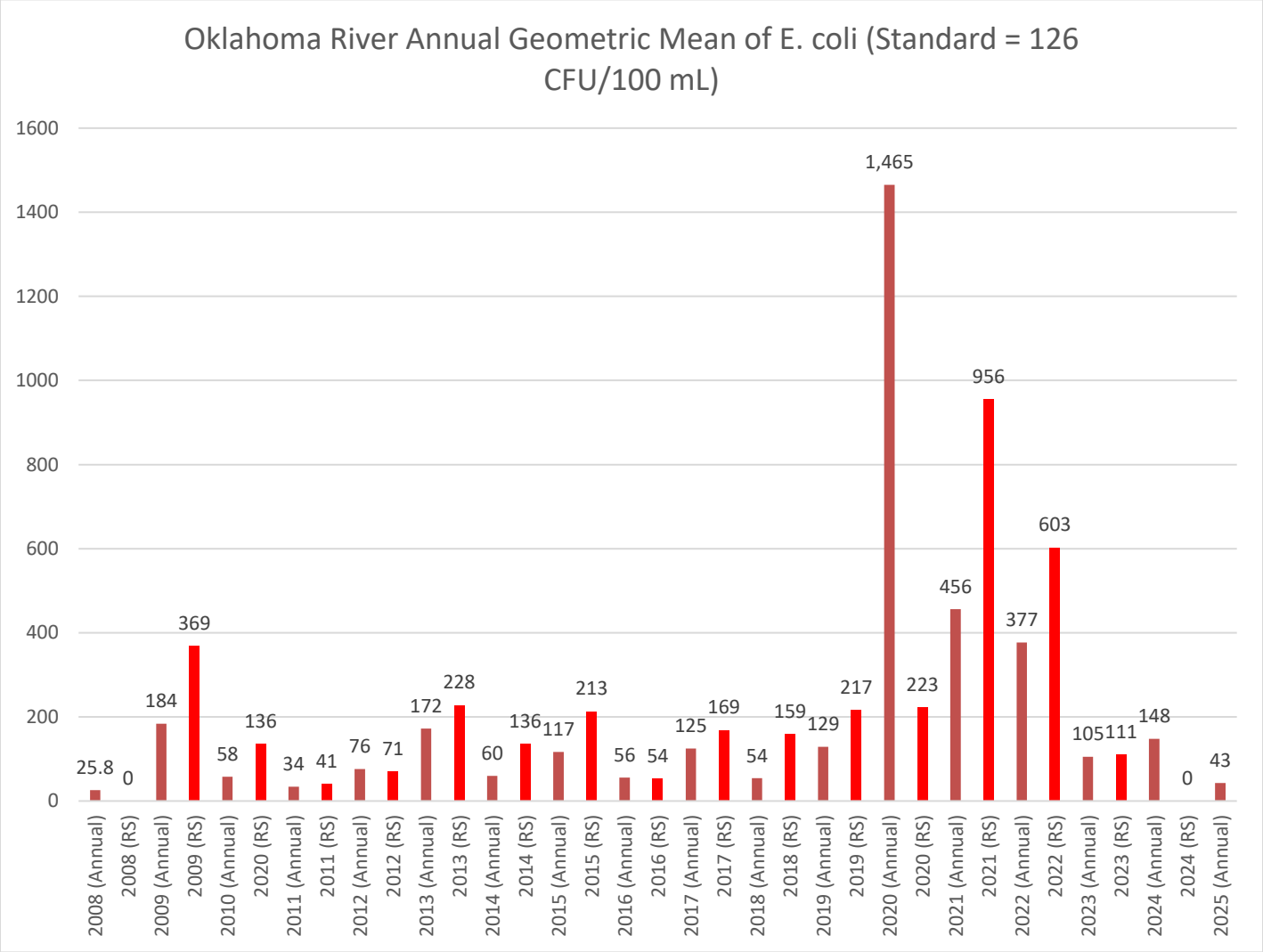
- Notify the City at least 1-day prior to the discharge event by calling (405) 297-1774; and
- Discharge should be conducted during dry weather conditions; and
- Dechlorination to <0.1 Mg/L measured as residual/free chlorine, when applicable; and
- Immediately clean/remove any deposits of materials, oil or other products which result from discharge activities; and
- Notify the City of any spills, structural failures, or erosion caused or contributed by the discharge activities; and
- Manage the discharge to limit roadway surface water which impacts roadway users.
- Hydrostatic Pressure Testing Waters: Owner/Operator shall provide a copy of the Oklahoma Corporation Commission Form 1014HD.
- Underground Storage Tank Wastewater Treatment Discharges: Owner/Operator may provide ODEQ's Authorization to Discharge Wastewater under the General Permit No. OKG830000 or Individual Permit.

Best Practices as Proposed by Operator:

Must complete both sides of this document

Appendix AZ: North Canadian/Oklahoma River (OK520520000010_40) *E. coli* Data Summary

Descriptive Statistic	Swimming Violations	Minimum	Maximum	Average	Median	Geometric Mean	N
2008 (Annual)		10	130	39	25	25.8	8
2008 (RS)	NA	NA	NA	NA	NA	NA	NA
2009 (Annual)		1	38,730	1,724	199	184	71
2009 (RS)	43.2%	1	38,730	2,161	300	369	37
2010 (Annual)		1	7,701	540	60	58	51
2020 (RS)	26.1%	1	7,701	1,074	100	136	23
2011 (Annual)		1	9,804	432	30	34	35
2011 (RS)	14.8%	1	9,804	702	31	41	27
2012 (Annual)		1	15,531	871	86	76	55
2012 (RS)	13.0%	6	6,867	543	55	71	23
2013 (Annual)		5	24,196	1,349	134	172	53
2013 (RS)	38.1%	10	24,196	2,331	109	228	21
2014 (Annual)		1	8,664	576	40	60	76
2014 (RS)	27.6%	1	8,664	1,195	179	136	29
2015 (Annual)		1	10,462	1,012	102	117	102
2015 (RS)	31.1%	3	10,462	1,523	152	213	45
2016 (Annual)		1	10,462	508	48	56	97
2016 (RS)	13.0%	1	9,804	401	51	54	46
2017 (Annual)		4	12,997	881	99	125	54
2017 (RS)	31.8%	9	12,997	1,359	105	169	22
2018 (Annual)		2	19,863	809	47	54	50
2018 (RS)	31.8%	3	19,863	1,668	159	159	22
2019 (Annual)		1	24,196	1,691	86	129	52
2019 (RS)	27.3%	9	24,196	2,291	169	217	22
2020 (Annual)		4	9,804	892	126	1,465	49
2020 (RS)	42.9%	18	9,804	1,408	214	223	21
2021 (Annual)		1	24,196	3,722	548	456	55
2021 (RS)	63.6%	13	24,196	5,314	1,014	956	22
2022 (Annual)		1	24,196	2,257	365	377	51
2022 (RS)	60.0%	17	24,196	3,713	577	603	20
2023 (Annual)		4	2,489	378	96	105	43
2023 (RS)	23.5%	4	1,414	273	105	111	17
2024 (Annual)		4	5,794	598	157	148	47
2024 (RS)	31.6%	NA	NA	NA	NA	NA	NA
2025 (Annual)		1	24196	1676	32	43	15
2025 (RS)	NA	NA	NA	NA	NA	NA	NA


Oklahoma River Annual Geometric Mean of E. coli (Standard = 126 CFU/100 mL)
1600
1400
1200
1000
800
600
400
200
0
25.8
0
184
369
58
136
34
41
76
71
172
228
60
136
117
213
56
54
125
169
54
159
129
217
1,465
223
456
956
377
603
105
111
148
0
43
2008 (Annual)
2008 (RS)
2009 (Annual)
2009 (RS)
2010 (Annual)
2020 (RS)
2011 (Annual)
2011 (RS)
2012 (Annual)
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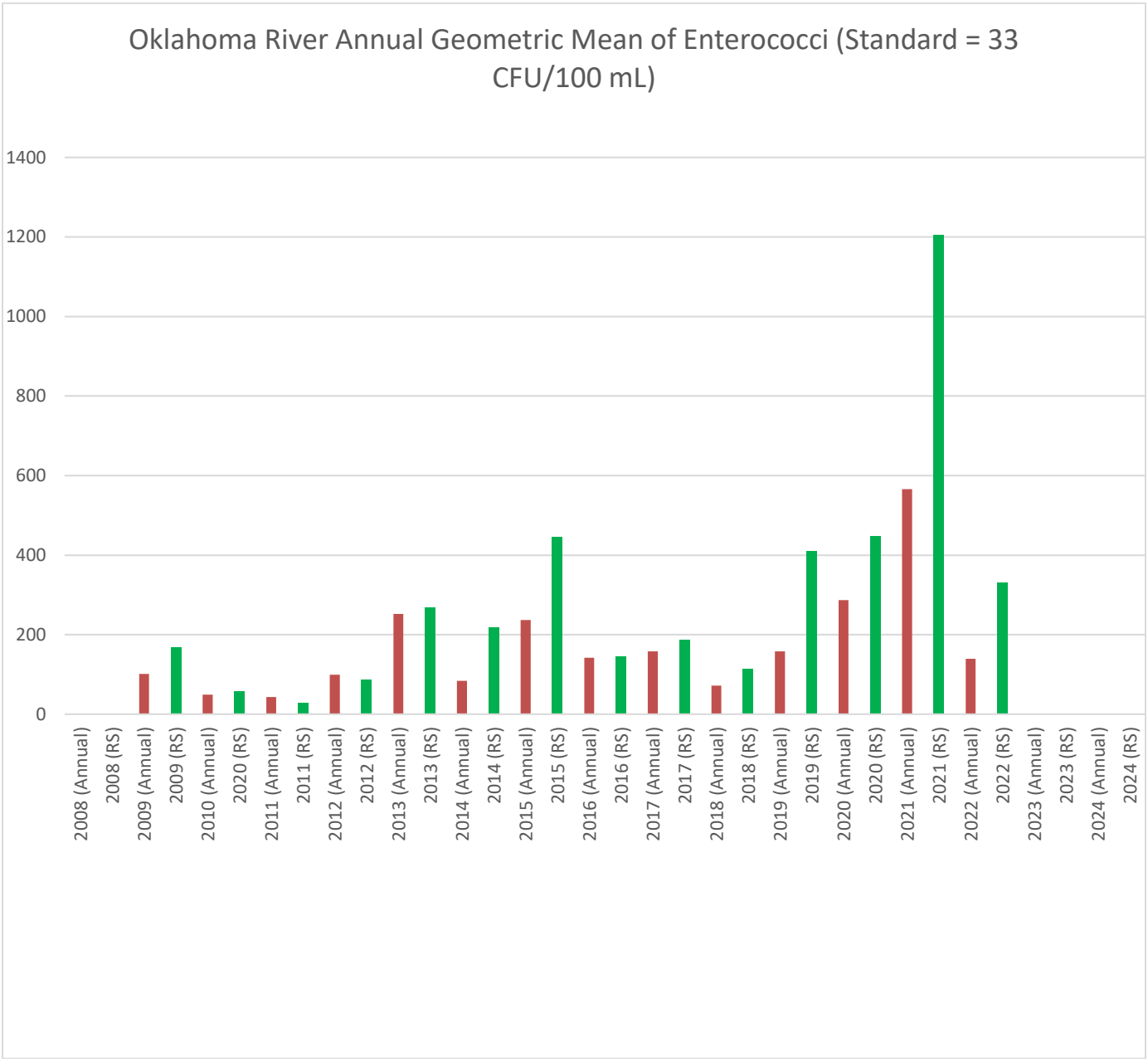
2019 (RS)
2020 (Annual)
2020 (RS)
2021 (Annual)
2021 (RS)
2022 (Annual)
2022 (RS)
2023 (Annual)
2023 (RS)
2024 (Annual)
2024 (RS)
2025 (Annual)

Appendix BA: North Canadian/Oklahoma River (OK520520000010_40) *Enterococci* Data Summary

Descriptive Statistic	Swimming Violations	Minimum	Maximum	Average	Median	Geometric Mean	N
2008 (Annual)		NA	NA	NA	NA	NA	NA
2008 (RS)	NA	NA	NA	NA	NA	NA	NA
2009 (Annual)		1	21,050	747	100	101	59
2009 (RS)	57.9%	10	21,050	1,086	139	167	38
2010 (Annual)		1	5,475	299	55	49	52
2020 (RS)	30.4%	1	5,475	550	75	58	23
2011 (Annual)		1	24,196	624	31	43	55
2011 (RS)	22.2%	1	24,196	1,008	20	29	27
2012 (Annual)		1	24,196	821	66	99	55
2012 (RS)	34.8%	17	24,196	1,177	41	87	23
2013 (Annual)		10	24,196	1,821	214	252	51
2013 (RS)	47.6%	10	24,196	2,673	108	268	21
2014 (Annual)		1	24,196	935	58	84	76
2014 (RS)	56.7%	12	24,196	1,958	188	219	30
2015 (Annual)		5	24,196	1,977	133	237	99
2015 (RS)	73.3%	39	24,196	2,937	225	445	45
2016 (Annual)		5	12,997	650	105	142	94
2016 (RS)	60.0%	16	11,199	576	141	145	45
2017 (Annual)		4	12,033	1,058	108	158	52
2017 (RS)	50.0%	16	9,208	1,252	104	187	22
2018 (Annual)		2	2,064	240	63	72	49
2018 (RS)	47.6%	17	1,892	340	77	113	21
2019 (Annual)		4	24,196	2,054	100	158	52
2019 (RS)	68.2%	14	24,196	3,422	196	410	22
2020 (Annual)		15	19,863	1,473	240	287	49
2020 (RS)	71.4%	23	7,701	1,414	548	448	21
2021 (Annual)		9	19,863	2,140	669	566	54
2021 (RS)	86.4%	36	19,863	2,954	2,018	1,205	22
2022 (Annual)		8	24,196	1,764	60	139	49
2022 (RS)	60.0%	29	24,196	2,666	202	330	20
2023 (Annual)		NA	NA	NA	NA	NA	NA
2023 (RS)	100.0%	NA	NA	NA	NA	NA	NA
2024 (Annual)		NA	NA	NA	NA	NA	NA
2024 (RS)	NA	NA	NA	NA	NA	NA	NA
2025 (Annual)		NA	NA	NA	NA	NA	NA
2025 (RS)	NA	NA	NA	NA	NA	NA	NA


Oklahoma River Annual Geometric Mean of Enterococci (Standard = 33 CFU/100 mL)
1400
1200
1000
800
600
400
200
0
2008 (Annual)
2008 (RS)
2009 (Annual)
2009 (RS)
2010 (Annual)
2020 (RS)
2011 (Annual)
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2021 (Annual)
2021 (RS)
2022 (Annual)
2022 (RS)
2023 (Annual)
2023 (RS)
2024 (Annual)
2024 (RS)

Appendix BB: Internal Agreement for the Oklahoma City Fire Department to Deliver Compromised Residential Lithium-Ion Batteries to the HHWCC

MEMORANDUM

The City of
OKLAHOMA CITY
Fire Department

TO: Oklahoma City Fire Department Personnel

FROM: Trent Williams
Battalion Chief of Operations

DATE: February 7, 2025

SUBJECT: Handling & Disposal of Compromised Household Lithium-Ion Batteries from Oklahoma City Residents

In response to the increasing number of incidents involving compromised lithium-ion batteries, the Oklahoma City Fire Department has purchased storage containers, Cell Block Transportation Kits, that will allow for safe transport of compromised household lithium-ion batteries to the **Household Hazardous Waste Collection Center (HHWCC)** located at **1621 S. Portland.**

Procedure for Handling Compromised Lithium-Ion Batteries:

1. **Storage Containers**: The storage containers will be used exclusively for the safe transportation of compromised lithium-ion batteries. These containers should be used immediately upon discovery of any compromised battery.
2. **Resident Interactions**:
   - If **a resident brings a compromised lithium-ion battery** to the fire station, please ensure it is placed in the designated storage container.
   - **Do not accept non-compromised lithium-ion batteries** at the fire station. Direct the resident to take the battery directly to the **HHWCC**.
3. **Fire Department Personnel**:
   - Fire department members who encounter compromised lithium-ion batteries during residential calls should immediately place them in the designated storage containers and safely transport them to the HHWCC, during the facility's normal operational hours.
4. **Facility Acceptance**: The **HHWCC** has agreed to accept **compromised** household lithium-ion batteries from Oklahoma City residences which are delivered by Fire Department personnel or the residents of Oklahoma City.
   - **They will not accept** batteries from **industrial or commercial businesses**. Batteries from any such entities must **not** be brought to the facility.
   - Verification of Oklahoma City residency must be delivered with the compromised lithium-ion battery. Acceptable verification of residency include:
     1. Valid driver's license with an Oklahoma City residential address; or
     2. Copy of a recent Oklahoma City Utility Bill; or
     3. Other – (405) 682-7038

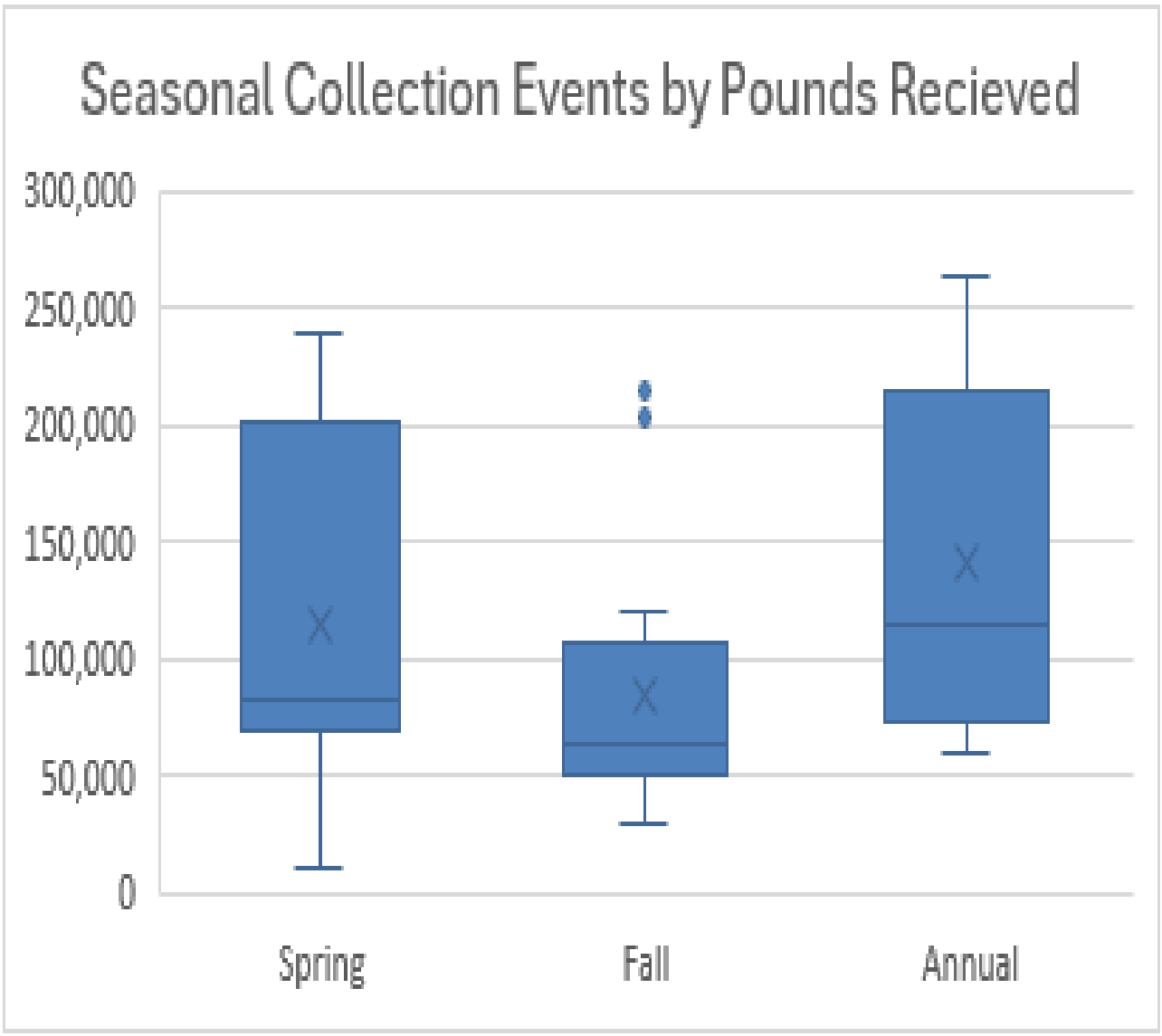
Ongoing Policy and Procedure Development:

The Oklahoma City Fire Department is in the process of developing a comprehensive **Policy and Procedure** to address the full spectrum of lithium-ion battery hazards that our personnel may encounter. This policy will cover all potential situations, from safe handling to response protocols for hazardous lithium-ion battery incidents.

Equipment Availability:

As part of our current safety measures, **Cell Block Transportation Kits** will be kept on **all Ladder and Hazmat Units**. These will not be left at the HHWCC.

Appendix BC: Special Collection Event Results by Season and Annual Summaries



Appendix BD: 2007, 2014, and 2024 OKC MS4 Audit Responses

STEVEN A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

BRAD HENRY
Governor

February 13, 2008

Mr. Dennis Clowers, City Engineer
City of Oklahoma City
Public Works Department
420 West Main St., 7th Floor
Oklahoma City, OK 73102

Re: City of Oklahoma City Phase I MS4 Audit
NPDES Permit No. OKS000101

Dear Mr. Clowers:

Enclosed is a copy of the narrative report resulting from the City of Oklahoma City Phase I Municipal Separate Storm Sewer System (MS4) Audit conducted on November 5 through 9, 2007, by Department of Environmental Quality (DEQ) personnel. The purpose of the inspection was to evaluate the City of Oklahoma City Phase I MS4 program for compliance with the NPDES permit. Also enclosed are copies of the field evaluation worksheets for the City of Oklahoma City municipal facilities, the Oklahoma Department of Transportation Central Garage, and the Oklahoma Turnpike Authority Maintenance Facility as well as copies of the field evaluation worksheets for the industrial and construction stormwater sites visited during the course of the audit.

The following findings and/or recommendations were identified during the audit:

Findings:

- The City of Oklahoma City is in substantial compliance with their permit, and no deficiencies per se were identified during the audit;
- The City of Oklahoma City Phase I MS4 program is a large, comprehensive, functional, productive, and well-managed program with a dedicated, competent, well-trained, and effective staff;
- The Monitoring Program is an impressive program that is probably the only one of its kind in the State of Oklahoma to collect and document water quality data on a watershed scale;
- Inspections are being done in a competent and professional manner;
- Emergency response is a strength of this program with well-documented results;
- Pollutant removal from the MS4 is occurring. Some of the most impressive programs contributing to pollutant removal from the MS4 include the Floatables Program and the Household Hazardous Waste Collection Facility among others.

Recommendations:

- There is a need for greater coordination between DEQ and the City of Oklahoma City with regards to enforcement activities;
- The City of Oklahoma City has not taken or received all of the credit due their program based on the information presented in the Annual Report. To that end, DEQ suggests the following changes be considered for subsequent annual reports:

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1. Specifically address post-construction activities;
2. Include a summary of water quality improvement based on data from monitoring programs;
3. Provide a breakdown of expenditures in each specific program managed by the Stormwater Quality Unit if possible;
4. Add information in the Public Education Section regarding the advertisement of specific workshops and training events, including the number of letters/invitations/pamphlets mass mailed to contact lists;
5. Supply information on the outcomes of illicit discharge investigations, e.g. number remediated and/or number of enforcement actions issued.

- The City of Oklahoma City should consider providing additional cross-training for all inspection staff, especially with regards to the recently implemented Cosmetic Cleaning Program.

The audit team found the Storm Water Quality staff to be focused on achieving established goals and willing to do what is needed to achieve those goals. We commend you all for this "can do" attitude and your established record of achievement.

On behalf of the DEQ, I want to thank all of the City of Oklahoma City personnel who participated in the City of Oklahoma City Phase I MS4 Audit for the preparation, hospitality, and cooperation extended to DEQ personnel throughout the course of the audit.

Should you have any questions regarding the findings of this report, please contact me at (405) 702-8139 or at the letterhead address.

Sincerely,

Wayne T. Cranev, P.E.
Engineering Manager II
Water Quality Division

Enclosure

CJE/WTC/jb

cc: Matt Caves, DEQ Legal
Raymond Melton, City of Oklahoma City, Environmental Protection Manager, 420 West Main St., 7th Floor, Oklahoma City, OK 73102
Michele Dolan, Oklahoma Department of Transportation, Construction Division, 200 NE 21st Street, Oklahoma City, OK 73105
Daniel Humphrey, Oklahoma Turnpike Authority, 3500 Martin Luther King Avenue, P. O. Box 11357, Oklahoma City, OK 73136

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

April 14, 2015

Mr. Eric Wenger, P.E., Director
Oklahoma City Public Works/City Engineer
420 West Main, Suite 700
Oklahoma City, OK 73102

RECEIVED
APR 20 2015
PUBLIC WORKS
ENGINEERING

Re: City of Oklahoma City Phase I MS4 Audit
OPDES Permit No. OKS000101

Dear Mr. Foster:

Enclosed is a copy of the narrative report resulting from the City of Oklahoma City (City) Phase I Municipal Separate Storm Sewer System (MS4) Audit conducted on November 17 through 21, 2014, by Department of Environmental Quality (DEQ) personnel. The purpose of the audit was to evaluate the City's Phase I MS4 program for compliance with the OPDES permit. Also enclosed are copies of field evaluation reports for the City's municipal facilities, Oklahoma Department of Transportation (ODOT) and Oklahoma Turnpike Authority (OTA) maintenance facilities and copies of the field evaluation reports for the industrial and construction stormwater sites visited during the course of the audit.

The following findings and/or recommendations were identified during the audit:

Findings:

- The City has made changes to the MS4 program since the last audit, which was conducted on November 5 - 9, 2007. These changes appear to be working well for both the staff and the program as evidenced by the annual report and this audit;
- The City has a dedicated, competent, well-trained, and professional staff who are very responsive to the public, other City departments, and regulatory agencies;
- The City has made significant effort to engage the public through numerous public events and staff participation/City partnership with various outside organizations including the Central Oklahoma Storm Water Alliance;
- The City has developed a comprehensive annual report; however, there are certain aspects of the stormwater program that are not fully described or presented in the Annual Report. Specifically, the Annual Report does not identify water quality improvements or degradation nor does it provide a breakdown of expenditures in each specific program managed by SWQ. The City should consider adding information on these elements to the Annual Report in order to fully describe the extensive nature of the program to the DEQ;
- The 2013 Annual Report was one day late due to administrative review and acquisition of necessary signatures;
- There appears to be good communication between the City, ODOT, and OTA as it relates to completion of the Annual Report;
- Limited enforcement activities occurred during the 2013 reporting period;

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printed on recycled paper with soy ink

SCOTT A. THOMPSON
Executive Director

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN
Governor

April 14, 2015

Mr. Eric Wenger, P.E., Director
Oklahoma City Public Works/City Engineer
420 West Main, Suite 700
Oklahoma City, OK 73102

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APR 20 2015
PUBLIC WORKS
ENGINEERING

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OPDES Permit No. OKS000101

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- Limited enforcement activities occurred during the 2013 reporting period;

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- The General Obligation Bonds of 2007 provide funds for structural control projects, including the sand filter at the Oklahoma State Fairgrounds;
- New structural control projects in the works include storm drain inlets at stormwater basins, sand filters, and Stormceptors at the Central Maintenance Facility;
- The City is also acquiring a transport vessel (aka debris barge) for Oklahoma River clean-up and sweepers to allow for better maintenance of structural controls;
- The New Development and Significant Redevelopment program is not well described in either the Stormwater Management Plan (SWMP) or the 2013 Annual Report. Most of the information contained in both documents is related more to the Construction Site Runoff component than it is to post-construction stormwater control as is required under this part of the permit;
- The SWMP does not include information regarding the Lake Thunderbird Total Maximum Daily Load (TMDL) or the Lake Thunderbird Compliance Plan;
- Low impact development and green infrastructure are not yet being well-promoted within City departments or to the general public. Plans are in place to achieve this promotion through the Lake Thunderbird Compliance Plan and a new design criteria manual, which are both under development;
- The City is in the process of installing an Austin-type sand filter at the Oklahoma State Fairgrounds, which will be able to treat the first 0.25" of rainfall;
- According to the Annual Report, 477.17 tons of pollutants were removed through roadway maintenance activities during the reporting period;
- The City lacks a methodology for estimating pollution reduction associated with flood control projects;
- The City uses a layered GIS system that contains all utilities;
- The 2013 annual Pesticide, Herbicide, Fertilizer (PHF) training event was held on May 15, 2014;
- The City has many means available for data collection and demonstration for the PHF program component;
- A list of all industrial wastewater dischargers with OPDES permit to discharge to the MS4 has not been developed as required by the City's permit in Part II.A.6(g);
- The number and types of enforcement actions taken to address illicit discharges are not being reported in the Annual Report;
- No illicit discharge information was reported by ODOT;
- The Pollution Complaints and Spill Response program component is robust and effective. As part of this component, the Household Hazardous Waste Collection Facility is well-run and organized;
- The Annual Report does not include specific information regarding metrics associated with pollutant reduction from Action Center requests and Hazardous Material incident responses;
- ODOT did not submit the annual summary of complaints and spill responses in Phase I Areas as stated in the Memorandum of Understanding;
- The City's ordinances related to Industrial and High Risk Runoff program component need to be updated. Ordinances do not specifically reference the state's multi-sector general permit, OKR05, or regulations/requirements nor do they set out specific permit conditions as has been done for the Construction Stormwater program. The City's Notice of Intent references a permit but no permit document with specific conditions permittees must follow exists;

- The high risk runoff monitoring program is not detailed or described in the SWMP as required by the City's permit in Part II.A.6;
- Numeric effluent limitation monitoring data for high risk runoff facilities is not being reported along with other monitoring data as required by the City's permit in Part II.A.13.d.1(a);
- The Construction Site Runoff program component appears to be a robust and effective program;
- Overall, the Public Education and Outreach program component appears to be a robust and effective program; however, the SWMP does not fully describe the activities being conducted as part of this program. A review of the SWMP and the permit indicates that the SWMP primarily focuses on the tasks outlined in Part III.A of the permit;
- The Employee Education program is not addressed in the SWMP;
- The Public Participation and Involvement program is not addressed in the SWMP;
- The Monitoring Program is well-reasoned and implemented;
- Sufficient details regarding the dry weather field screening program were not included in the Annual Report;
- The SWMP does not include descriptions of the City's identified minor and major outfalls; and
- A review of the City's monitoring records for wet weather sampling revealed two data entry errors for the sample taken on September 13, 2012. These errors were corrected prior to the completion of the audit.

- During the field evaluation inspections, the following areas of concern were found:

  Municipal Maintenance Facilities:

  - At the City's Central Maintenance Facility, DEQ personnel observed leaking oil filters in a scrap metal bin at the Equipment Services portion of the facility;
  - At the City's Deer Creek Wastewater Treatment Plant, DEQ personnel found that the stormwater pollution prevention plan (SWP3) did not include the stormwater outfalls or best management practices (BMPs) on its site map and that a trash bin was leaking and in need of repair;
  - At the City's First Vehicle Services Facility, DEQ personnel found that the SWP3 did not identify the location of Outfall 001 on the site map;
  - At the City's Lake Hefner Golf Club, DEQ personnel found that equipment washing was occurring outdoors and that the wastewater from this activity was being discharged to an adjacent creek;
  - At the City's South Canadian Wastewater Treatment Plant, DEQ personnel observed sludge on the ground near the digester, oil leaks on impervious surfaces, and that the SWP3 needed to be updated to reflect the actual number of outfalls on-site;
  - At the State Fairgrounds, DEQ personnel found that the facility's site map needed to be updated. DEQ personnel also observed leaks and spills at the maintenance shop fueling area, numerous barrels with contaminated tops or lacking bungs and floatable debris near the transfer station, and a grease trap spill in need of maintenance near Sodexo;
  - At the City's James E. Stewart Golf Course, DEQ personnel observed several broken bags of fertilizer being stored outside uncovered;

City of Oklahoma City Phase 1 MS4 Audit
Permit No. OKS000101
April 14, 2015
Page 4 of 6

- At the OTA Hefner Road Maintenance Facility, DEQ personnel found that vehicle and equipment washing was occurring outdoors and that the wastewater from this activity was being discharged to the MS4. DEQ personnel also observed insufficient secondary containment around the magnesium chloride tank, erosion issues at the stormwater outfalls, and that the SWP3 did not adequately reflect site conditions;
- At the OTA East Maintenance Yard, DEQ personnel found that vehicle and equipment washing was occurring outdoors and that the wastewater from this activity was being discharged to the MS4. DEQ personnel also found that monthly inspections were not being documented;
- At ODOT's Central Garage, DEQ personnel found that site inspections were not being documented, IT batteries were stored outside and uncovered, and a dumpster near the loading dock was missing a lid; and
- At ODOT's Division 4 Annex, DEQ personnel observed uncovered rolloffs and an accumulation of floatable debris on-site.

Construction Sites:

- Based on the construction site field evaluation findings, the City should ensure consistency between all inspectors as it relates to how construction stormwater inspections are conducted. All inspectors should walk the entire site in order to inspect all BMPs and points of discharge.

Within thirty (30) days of the date of this letter, the City should take whatever corrective actions are necessary to correct the deficiencies cited above during the field evaluation inspections and provide DEQ with a report detailing the corrective actions.

Recommendations:

- The City should continue its efforts to strengthen and enhance its MS4 program;
- The City has not taken or received all of the credit due their program based on the information presented in the Annual Report. To that end, ODEQ suggests the following changes be considered:
  - Specifically address post-construction activities;
  - Include a summary of water quality improvement based on data from monitoring programs;
  - Provide a breakdown of expenditures in each specific program managed by SWQ, if possible;
- The City should consider outlining the evaluation process for structural control functions in place during the reporting period as it relates to stormwater effectiveness;
- The City should consider evaluating the effectiveness of the various structural control units, for both design and scope, utilized throughout the MS4;
- The City should consider incorporating smart design principles when planning structural control projects;
- The City should consider including information on planning and other activities related to post-construction stormwater control in both the SWMP and the Annual Report;
- The City should consider including a summary and timeline for completion of the Lake Thunderbird TMDL Plan and design criteria manual in the Annual Report and/or SWMP;

- The City should consider creating a database or tracking system for the maintenance and inspections of publicly-owned post-construction stormwater BMPs;
- The City should consider including documentation and additional details related to the identification and resolution of problems related to roadways;
- The City should consider establishing a method, with appropriate metrics, to document pollutant reduction using defensible criteria with a plausible basis;
- The City should consider developing a method to evaluate the current capacity of retention ponds to aid in identifying maintenance issues associated with these structures;
- The City should consider incorporating PHF application requirements into SWQ's Industrial Stormwater Training workshops;
- The City should consider adding details on the types of illicit discharges found and how these discharges were removed or resolved to the Annual Report;
- The City should consider and/or coordinate sanitary sewer overflow reporting and remediation activities with the Utilities Department;
- The City should consider collecting metrics regarding spill removal pollution reduction;
- The City should ensure that there is coordination between the Action Center database and the Public Works Response Manager database for reporting purposes;
- The City should consider ways to incorporate high risk runoff monitoring data in the current program and/or establish criteria levels should data indicate discharge from a facility may adversely impact water quality;
- In ODOT's and OTA's portion of the SWMP, it states that the City has been assigned the responsibility for implementing and managing this portion of the program. Municipal maintenance facilities are treated as industrial stormwater sites by the City. Given this, the City should consider treating all maintenance facilities within the MS4 as industrial stormwater sites;
- The City should consider offering regular refresher training on BMPs, new technologies, and other aspects of construction stormwater control for its inspection staff;
- The City should review its current staffing levels as it relates to the number of construction inspectors needed to adequately monitor the increasing number of new construction sites within city limits;
- The City should consider expanding employee education on stormwater-related topics to other city personnel outside of SWQ;
- The City should consider including detailed and specific information on dry weather field screening findings;
- The City should consider including information on identified major and minor outfalls in the SWMP; and
- The City should consider providing DEQ with any revisions to reported data as necessary.

We wish to thank all of the personnel who participated in the City of Oklahoma City Phase I MS4 Audit for the preparation, hospitality, and cooperation extended to DEQ personnel throughout the course of the audit.

City of Oklahoma City Phase 1 MS4 Audit
Permit No. OKS000101
April 14, 2015
Page 6 of 6

Should you have any questions regarding the findings of this report, please contact me at (405) 702-8139 or at the letterhead address.

Sincerely,

Wayne T. Cuthey, P.E.
Engineering Manager II
Water Quality Division

Enclosure

CJE/WTC/kw

cc: Raymond Melton, Environmental Protection Manager, Stormwater Quality Management, City of Oklahoma City,
Michele Dolan, Oklahoma Department of Transportation, Construction Division, 200 NE 21st Street, Oklahoma City, OK 73105
Darian Butler, Oklahoma Turnpike Authority, 3500 Martin Luther King Avenue, P. O. Box 11357, Oklahoma City, OK 73136

Robert Singletary
Executive Director

OKLAHOMA Environmental Quality

Kevin Stitt
Governor

April 23, 2025

Debbie Miller, P.E., Director of Public Works
City of Oklahoma City
420 West Main St. 7th Floor
Oklahoma City, Oklahoma 73102

RE: FY24 MS4 Phase I Screening Evaluation
City of Oklahoma City Phase I Municipal Separate Storm Sewer System
OPDES Permit No. OKS000101

Dear Debbie Miller:

Enclosed is a copy of the Final Report resulting from the Phase I Municipal Separate Storm Sewer System (MS4) Screening Evaluation of the City of Oklahoma City Phase 1 MS4 conducted by the Oklahoma Department of Environmental Quality (DEQ). The Audit was performed May 20-24, 2024.

DEQ appreciates the cooperation we received during the performance of the Screening Evaluation. If you have any questions or comments concerning this report, you may contact Mark Thibodeau, MS4 Program Coordinator, Municipal Wastewater Enforcement Section, Water Quality Division, DEQ, by e-mail (mark.thibodeau@deq.ok.gov), telephone (405-702-8108), or at the letterhead address.

Sincerely,

Myles Mungle, P.E., Engineering Manager
Municipal Wastewater Enforcement Section
Water Quality Division
Oklahoma Department of Environmental Quality

DM/MRT/MM/lv

Enclosure: Audit Report

cc: Derek Johnson, Environmental Water Quality Unit Supervisor, City of OKC
Stephen Henry, Regional Manager, ECLS

707 N. ROBINSON AVE., PO BOX 1677, OKLAHOMA CITY, OK 73101-1677 · OFFICE: 405-702-0100
STATE OF OKLAHOMA · OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY · DEQ.OK.GOV

FY 2024 Phase I MS4 Screening Evaluation
City of Oklahoma City Phase I MS4
OPDES Permit No. OKS000101
May 20-24, 2024
Report Findings

The exit interview was conducted with the following representatives the City of Oklahoma City (City) and the Oklahoma Department of Environmental Quality (DEQ).

City
Derek Johnson, Env. Water Quality Unit Supervisor
David Phillips, Construction Unit Supervisor
Jeremy Coffey, Industrial Unit Supervisor
Brenda Underwood, Administrative Coordinator
Zenobia Napoleon, Public Outreach Coordinator
Lyndel Gibson, Household Hazardous Waste Supervisor

DEQ
Mark R. Thibodeau, MS4 Program Coordinator
Gabriel Stevens, Pretreatment Program Coordinator
Toby Harden, P.E., District Engineer
Elizabeth Denning, E.I., District Representative
David Mercer, P.E., District Engineer
Emily Webb, District Representative
Tu Nguyen, E.I., District Representative
Jordan Hultgren, E.I., District Representative

SWMP Component #4: Construction Site Runoff

Deficiencies:

- The current Standard Operating Procedure (SOP) site plan review expired in 2017.
- The City must require construction sites to use temporary stabilization in cases where the construction site has been dormant for 14 days or more.
- The construction site inspectors were not consistently utilizing photo documentation as part of the inspection efforts.
- The City must standardize its temporary stabilization requirements.
- The City must require Stormwater Pollution Prevention Plans (SWP3s) to specify what best management practices (BMPs) will be used for temporary stabilization.
- The City must standardize inspector education practices.
- The City must ensure that all inspections include review of grading and stabilization documents to determine where stabilization BMPs are required.

FY 2024 Phase I MS4 Screening Evaluation
City of Oklahoma City Phase I MS4
OPDES Permit No. OKS000101
May 20-24, 2024
Report Findings

Comments:

- The City should standardize enforcement escalation procedures across inspectors, reducing the requirement for inspector discretion.
- The City should ensure its inspectors are using the same criteria for evaluating construction sites and determining if the sites are compliant.

Commendations:

- City construction inspection personnel demonstrated significant experience, knowledge of construction stormwater practices and expectations, and admirable rapport with the regulated community.

SWMP Component #5: Industrial and High-Risk Runoff

Deficiencies:

- Inspectors were not consistent on recording observations using the designated forms.
- Inspectors must follow SOPs when technology is implemented for documenting inspections (i.e. photo documentation, and entering information into the tablets)
- The SWP3 at each site must memorialize all outfalls.
- Inspectors must ensure timely and appropriate follow-up actions and enforcement.
- The City must include SOPs in the SWMP for conducting reinspection's and how to document deficiencies in a standardized manner.
- The City must develop SOPs including establishing schedules for deficiency correction when violations are noted during inspections.
- The City must establish an SOP requiring inlet protection and water dechlorination when conducting hydrant flushing.

Comments:

- Firefighting activities should continue to attempt to diminish the use of foams containing Per- and Polyfluoroalkyl Substances (PFAS) when possible. DEQ recognizes that this would be an interdepartmental effort for the City.
- The City should consider establishing routine cross-divisional training and information sharing events in which personnel can work to establish knowledge base uniformity.

SWMP Component #6: Household Hazardous Waste

Comments:

FY 2024 Phase I MS4 Screening Evaluation
City of Oklahoma City Phase I MS4
OPDES Permit No. OKS000101
May 20-24, 2024
Report Findings

- The City should consider implementing a program to remove products containing Contaminants of Emerging Concern (CECs), such as PFAS, from re-entering circulation at the Swap Shop, as the Household Hazardous Waste Collection Center (HHWCC) provides a convenient removal point.

Commendations:

- The City's HHWCC is an excellent demonstration of the City's commitment to meeting state and federal regulatory requirements and its pollution prevention efforts.

SWMP Component # 7: Public Outreach

Commendations:

- The City's public outreach program is very thorough and far reaching and provides avenues for assessing efficacy and modification when needed. The program adopts a full spectrum approach that allows the City to effectively and proactively disseminate information to its constituents.

SWMP Component #8: Roadway Operation and Maintenance

Commendations:

- The Roadway Operation and Maintenance section demonstrated exceptional innovation in reaching its goals with limited resources.

SWMP Component #9: Pesticide, Herbicide, and Fertilizer Application

Commendations:

- The City's annual pesticide workshop serves as a reliable and much-needed source of information for multiple OKR04 Permittees in the State.

SWMP Component #10: Pollution Complaint and Spill Response

Deficiencies:

- An SOP for complaint receipt and handling timelines was not established. Although SOPs setting timelines for enforcement documents have been established, no quantifiable metrics for complaint response, deliverables, or resolution were available at the time of inspection.

Commendations:

FY 2024 Phase I MS4 Screening Evaluation
City of Oklahoma City Phase I MS4
OPDES Permit No. OKS000101
May 20-24, 2024
Report Findings

- City records and DEQ's inspection show that Dawson McNeill and Jess Shumway demonstrated exceptional work ethic and resolve in handling pollution complaints and responses.

SWMP Component #12: Wet Weather Analytical

Deficiencies:

- Scrivener's errors were not correctly documented. For data integrity, every error must be lined-through, dated, and initialed to indicate who made the changes.

SWMP Component #15: Supporting Permit Conditions, Monitoring Programs, and Documents

Deficiencies:

- The City currently monitors publicly owned stormwater quality structural controls through an estimate system, rather than a quantified percentage. The City must establish a method for quantifying the amount of publicly owned stormwater quality structural controls inspected rather than through an estimate system.

Comments:

- There were a great deal of grammatical errors in official City-issued documents: notices of violation, consent orders, stop work orders, etc. The City may find proofreading to be beneficial, as these documents ensure proper interpretation of City ordinances for legal reasons.
- The City should formalize the requirement to use an accredited laboratory for total maximum daily load (TMDL), monitoring, etc. The laboratory currently utilized is accredited, but the City does not have any guiding documents requiring that criteria be met.

Appendix BE: 2007, 2014, and 2024 MS4 Permit Audit Comment Summary

Audit Year	Comment
2007	Substantial permit compliance
2007	Well managed with competent staff
2007	Impressive monitoring program at a watershed scale
2007	Sufficient documentation and competent inspections
2007	Documented pollutant removal (floatable and HHWCC programs)
2007	Documented pollutant removal (floatable and HHWCC programs)
2007	Better coordination with DEQ on enforcement matters
2007	Address post construction, water quality improvement (based on monitoring data), breakdown of expenditures, report public education information (including advertising and materials used to promote events), report illicit discharge investigation outcomes.
2007	Provide cross-training for all inspection staff (especially regarding Cosmetic Cleaning Program).
2014	Changes have been made since the last audit findings
2014	Dedicated, competent, well trained and professional staff.
2014	Significant effort to engage the public through events, staff participation, and organizations (including COSWA).
2014	Appears to be good communication between co-permittees (ODOT and OTA).
2014	2007 provides funds for SCMs (including the sand filter at the Oklahoma State Fairgrounds)
2014	New SCMs planned include storm drain inserts and filters, and StormCeptors at CMF.
2014	City is acquiring a transport vessel (debris barge) for OK River and sweepers.
2014	City is installing an Austin-type sand filtration to treat 0.25" rainfall (Fairgrounds).
2014	According to the AR 477.17 tons of pollutants were removed through roadway maintenance activities.
2014	City uses GIS system that contains all utilities
2014	PHF training held May 15, 2014
2014	City has many means available for data collection and demonstration for the PHF program.
2014	List of all industrial wastewater discharges with OPDES permit to discharge to the MS4 has not been developed as required in MS4 permit (Part II.A.6(g))
2014	Pollution Complaints and Spill Response program is robust and effective.
2014	The HHWCC is well run and organized.
2014	Numeric effluent limitation monitoring data for high-risk runoff facilities in not being reported with other monitoring data as required by the permit (Part II.A.13.1(a)
2014	Construction Site runoff appears to be robust and effective.

Audit Year	Comment
2014	Public education and outreach appear to be robust and effective.
2014	Monitoring programs well-reasoned and implemented.
2014	Two data entry errors for Wet Weather program on September 13, 2012
2014	AR does not identify water quality improvements.
2014	AR does not provide a breakdown of expenditures by program.
2014	2013 AR was late by one day and was not appropriately signed.
2014	Limited enforcement during the 2013 reporting period.
2014	New development and redevelopment is not well described in the SWMP or the 2013 AR (most languages pertain to construction site runoff).
2014	SWMP does not include information regarding the Lake Thunderbird TMDL or Compliance Plan.
2014	LID and GI are not yet being well-promoted internally or externally.
2014	City lacks methods for estimating pollution reduction associated with flood control projects.
2014	List of all industrial wastewater discharges with OPDES permit to discharge to the MS4 has not been developed as required in MS4 permit (Part II.A.6(g))
2014	Number and types of enforcement actions taken are not reported in the AR.
2014	No illicit discharge information was reported by ODOT.
2014	AR does not include metrics associated with pollutant reduction from Action Center requests and Hazardous Material incident responses.
2014	ODOT did not submit an annual summary of complaints and spill responses in Phase I areas as required by MOU.
2014	Update City Ordinances to Industrial and High-Risk Runoff program. Ordinances do not specifically reference the state's multi-sector general permit, OKR05, or regulations/requirements. The City's NOI references a permit but no permit document with specific conditions permittees must follow exists.
2014	The High-Risk Runoff Program is not detailed or described in the SWMP as required by the permit (Part II.A.6)
2014	Numeric effluent limitation monitoring data for high-risk runoff facilities in not being reported with other monitoring data as required by the permit (Part II.A.13.1(a))
2014	SWMP does not fully describe activities being conducted as a part of this Public Outreach and Education.
2014	Employee education not addressed in SWMP
2014	Sufficient details regarding the IDDE program were not included in AR.
2014	SWMP does not include descriptions of minor and major outfalls.
2014	DEQ observed leaking oil filters in scrap metal bin at Equipment Services.
2014	Deer Creek WWTP SWPPP did not include storm water outfalls and BMPs on site map. Trash bin leaking and in need of repair.
2014	The City’s First Vehicle Services Facility did not ID outfall 001 on site map.

Audit Year	Comment
2014	Lake Hefner Golf Club equipment washing outdoors with discharge to local waterway.
2014	S. Canadian WWTP - sludge on ground near digester, oil leaks, and SWPPP needed updates to reflect outfalls.
2014	State Fairgrounds need an updated site map. Observed leaks and spills at maintenance shop fueling area, numerous barrels with contaminated tops, lacking bungs, and floatable debris near transfer station, a grease trap spill.
2014	James E. Stewart Golf Course. Broken bags of fertilizer in outdoor storage.
2014	OTA Hefner Road Maintenance Facility - Vehicle and equipment washing outdoors (discharging to MS4). Insufficient secondary containment around magnesium chloride tank, erosion issues at SW outfalls, SWPPP did not adequately reflect site conditions.
2014	OTA East Maintenance Yard - outdoor vehicle and equipment with discharge to MS4. Monthly inspections not documented.
2014	ODOT's Central Garage - Site inspection not documented, IT batteries stored outside and uncovered, dumpster near loading dock was missing a lid.
2014	Division 4 Annex - uncovered roll offs and accumulation of floatable debris on-site.
2014	Ensure consistency between all inspectors (regarding inspections). All inspectors should walk entire site to assess all BMPs and points of discharge.
2014	Recommendation: Continue to strengthen and enhance MS4 programs.
2014	Recommendation: Take credit for all program elements in the AR to include post construction activities; water quality improvement based on monitoring programs; breakdown expenditures for each managed.
2014	Consider outlining the evaluation process for structural control functions in place during the reporting period as it relates to storm water effectiveness.
2014	Consider evaluating the effectiveness of SCM for both design and scope utilized throughout the MS4.
2014	Consider incorporating smart design principles when planning control projects.
2014	Consider including information on planning and other activities related to post-construction SW control in both the SWMP and AR.
2014	Consider including a summary and timeline for completion of the Lake Thunderbird TMDL Plan and design criteria manual in the AR or SWMP.
2014	Consider creating a database or tracking system for maintenance and inspections of publicly owned post-construction SW BMPs.
2014	Consider including documentation and additional details related to the identification and resolution of problems related to roadways.
2014	Consider establishing a method, with appropriate metrics, to document pollutant reduction using defensible criteria with plausible basis.
2014	Consider developing a method to evaluate the current capacity of retention ponds to aid in identifying maintenance issues associated with these structures.

Audit Year	Comment
2014	Consider incorporating PHF application requirements in SWQs Industrial Stormwater Training workshops.
2014	Consider adding details on types of illicit discharges found and how these discharges were removed or resolved to the AR.
2014	Consider or coordinate sanitary sewer overflow reporting and remediation activities with the Utilities Department.
2014	Consider collecting metrics regarding spill removal pollution reduction.
2014	Ensure coordination between Action Center database and Public Works Response Manager database for reporting purposes.
2014	Consider ways to incorporate high-risk runoff monitoring data in the current program or establish criteria levels should data indicate discharge from a facility may adversely impact water quality.
2024	In ODOT and OTA's portion of the SWMP, it states that the City has been assigned the responsibility for implementing and managing this portion of the program. Municipal maintenance facilities are treated as industrial stormwater sites by the City. Given this, the City should consider treating all maintenance facilities with the MS4 as industrial stormwater sites.
2024	Consider offering regular refresher training on BMPs, new technologies, and other aspects of construction stormwater control for its inspection staff.
2024	Review current staffing levels as it is related to the number of construction inspectors needed to adequately monitor the increasing number of new construction sites within the City.
2024	Consider expanding employee education on stormwater-related topics to other city personnel outside of SWQ.
2024	Consider including detailed and specific information on dry weather field screening findings.
2024	Consider including information on identified major and minor outfalls in the SWMP.
2024	Consider providing DEQ with any revisions to reported data as necessary.
2024	Current Standard Operating Procedures site plan review expired in 2017.
2024	City must require construction sites to use temporary stabilization in cases where construction site has been dormant for 14 days or more.
2024	Construction site inspectors were not consistently utilizing photo documentation as part of the inspection efforts.
2024	City must standardize its temporary stabilization requirements.
2024	City must require SWPPP to specify BMPs will be used for temporary stabilization.
2024	City must standardize inspector education practices.
2024	City must ensure that all inspections include review of grading and stabilization document to determine where stabilization BMPs are required.
2024	City should standardize enforcement escalation procedures across inspectors, reducing the requirement for inspector discretion.

Audit Year	Comment
2024	Ensure inspectors are using the same criteria for evaluating construction sites and determining if sites are compliant.
2024	Construction inspection personnel demonstrated significant experience, knowledge of construction stormwater practices and expectations, and admirable rapport with the regulated community.
2024	Inspectors were not consistent on recording observations using designated forms.
2024	Inspectors must follow SOPs when technology is implemented for documenting inspections (i.e.- photo documentation and entering information into tablets).
2024	The SWPPP at each site must memorialize all outfalls.
2024	Inspectors must ensure timely and appropriate follow-up actions and enforcement.
2024	City must include SOPs in the SWMP for conducting reinspection's and how to document deficiencies in a standardized manner.
2024	City must develop SOPs including establishing schedules for deficiency correction when violations are noted during inspections.
2024	City must establish an SOP requiring inlet protection and water dechlorination when conducting hydrant flushing.
2024	Firefighting activities should continue to attempt to diminish the use of foams containing Per- and Polyflouroalkyl Substances (PFAS) when possible. DEQ recognizes that this would be an interdepartmental effort for the City.
2024	The City should consider establishing routine cross-divisional training and information sharing events in which personnel can work to establish knowledge base uniformity.
2024	The City should consider implementing a program to remove products containing Contaminants of Emerging Concern (CECs), such as PFAS, from re-entering circulation at the SWAP Shop, as the HHWCC provides a convenient removal point.
2024	The City's HHWCC is an excellent demonstration of the City's commitment to meeting state and federal regulatory requirements and its pollution prevention efforts.
2024	The City's public outreach program is very thorough and far reaching and provides avenues for assessing efficacy and modification when needed. The program adopts a full spectrum approach that allows the City to effectively and proactively disseminate information to its constituents.
2024	The Roadway Operation and Maintenance section demonstrated exceptional innovation in reaching its goals with limited resources.
2024	The City's annual pesticide workshop serves as a reliable and much-needed source of information for multiple OKR04 Permittees in the State.
2024	An SOP for complaint receipt and handling timelines was not established. Although SOPs setting timelines for enforcement documents have been established, no quantifiable metrics for complaint response, deliverables, or resolution were available at the time of inspection.

Audit Year	Comment
2024	City records and DEQ's inspection show that Dawson McNeill and Jess Shumway demonstrated exceptional work ethic and resolve in handling pollution complaints and responses.
2024	Scrivener's errors were not correctly documented. For data integrity, every error must be lined-through, dated, and initialed to indicate who made the changes.
2024	There were a great deal of grammatical errors in official City-issued documents: notices of violation, consent orders, stop work orders, etc. The City may find proofreading to be beneficial, as these documents ensure proper interpretation of City ordinances for legal reasons.
2024	The City should formalize the requirement to use an accredited laboratory for TMDL, monitoring, etc. The laboratory currently utilized is accredited, but the City does not have any guiding documents requiring that criteria be met.