STORMWATER PERMIT RELATED MAINTENANCE FUNCTIONS

LITTLE ROCK - 2017

**2.0 Status of Component Implementation**

2.1.1 Used Motor Vehicle Fluids Collection Program

2.1.1.2 ArDOT

ARDOT implemented a program to recycle automotive oil as well as oil from its equipment before March 1, 1997.

2.1.2 Vegetative Management Plan

2.1.2.2 ArDOT

The Permit did not require ArDOT to prepare a Vegetative Management Plan.

2.1.3 Investigation/Elimination of Dry Weather Discharges

2.1.3.2 ArDOT

The Permit does not require ArDOT to investigate or eliminate dry weather discharges.

2.1.4 Illicit Discharges

2.1.4.2 ArDOT

ArDOT reports any spills to ADEQ and it participates in the “Keep Arkansas Beautiful” Program. It provides annual training for maintenance personnel in the identification and reporting of illicit discharges into the Department right-of-way.

2.1.4 Pesticide, Herbicide, and Fertilizer Use

2.1.4.2 ArDOT

The Department conducts herbicide applications using certified applicators under Arkansas State Plant Board regulations as well as the requirements of the NPDES Pesticide Permit. Fertilizers are applied at the minimum rate necessary according to the guidelines contained in the Department’s Standard Specifications manual.

2.1.7 Pollution Prevention Measures

2.1.7.1 Used Motor Vehicle Fluids Collection

2.1.7.1.2 ArDOT

During the Permit year, 1,288 gallons of petroleum products and gallons of antifreeze were recycled from equipment used by crews working in Little Rock.

2.1.7.2 Household Hazardous Waste Collection

2.1.7.2.2 ArDOT

The collection of household hazardous wastes is not applicable to ArDOT

2.1.7.3 Floatables Reduction

2.1.7.3.1 ArDOT

ArDOT in cooperation with the Arkansas Beautiful Commission promotes an Anti-Litter Program to encourage people not to litter and to cite those people who do litter. This program includes training for law enforcement personnel, advertising anti-littering laws, enforcement awards, prisoner litter pick, and a violator reporting system. Information on ArDOT’s street sweeping activities and its litter removal program are presented in Section 2.1.8.3.2.

2.1.8 System-Wide Measures

2.1.8.1.2 ArDOT

ArDOT spent $**12, 902** to purchase materials to construct or repair catch basins, junction boxes, and ditch paving, and to purchase replacement drainage culverts. ArDOT spent a total of $**107,000** for materials and installation and associated ditch cleaning of minor drainage structures.

ArDOT spent $**3,636** to machine clean and reshape existing ditches, remove and properly dispose of **15** CY of excess material. ArDOT spent $**436** to purchase riprap, matting, geotextiles, sod, seed, and fertilizer to repair and prevent ditch and slope erosion. The total cost of purchase and installation was $**4,008.**

2.1.8.2 New Development Controls

2.1.8.2.2 ArDOT

The following projects were under contract in Little Rock at various times during 2017:

* 060395 – Union Pacific RR Overpass (Arch St.) (LR)
* 061275 – Arkansas River Str. & Apprs. (Broadway) (LR/NLR)
* 061277 – Union Pacific RR Str. & Apprs (Roosevelt Rd) (LR)
* 061333 – I-430/Hwy 10 Interchange Impvt. (LR)
* 061390 – Crooked Creek Channel Impvts. (I-30)
* 061437 – I-30 / I-430 Interchange Impvt. (LR) (Phase II)

The following quantities of erosion control items were incorporated in these projects:

|  |  |  |  |
| --- | --- | --- | --- |
|  | PAID |  | PAID |
| Item | QUANTITY | UNIT | COST |
| Concrete Ditch Paving | 6,056.20 | Square Yards | $422,126.56 |
| Concrete Riprap | 340.76 | Cubic Yards | $146,424.00 |
| Drop Inlet Silt Fence | 282.00 | Linear Feet | $2,924.68 |
| Erosion Control Matting | 561.33 | Square Yards | $2,245.32 |
| Lime | 21.00 | Tons | $3,412.50 |
| Mulch Cover | 18.15 | Acres | $16,222.39 |
| Rock Ditch Checks | 49.37 | Cubic Yards | $3,608.00 |
| Sand Bag Ditch Checks | 1,482.00 | Bag | $13,893.47 |
| Sediment Removal & Disposal | 133.00 | Cubic Yards | $2,046.00 |
| Seeding | 18.34 | Acres | $19,765.26 |
| Silt Fence | 4,613.00 | Linear Feet | $16,415.43 |
| Solid Sodding | 4,754.39 | Square Yards | $38,325.53 |
| Temporary Seeding | 0.33 | Acres | $233.80 |
| Water | 18.20 | Million Gallons | $96.79 |
| Wattle | 250.00 | Linear Feet | $2,000.00 |
|  |  | Total | $689,739.73 |

(Tony Evan’s portion incorporated on 3/12/18)

2.1.8.3: Roadways

2.1.8.3.2: ArDOT

ArDOT reports the following actions to meet this requirement:

Spent $700 to purchase material to pickup litter by ArDOT personnel; $342, 428 total cost to pickup litter by ArDOT Personnel and contract; 3,711 CY of litter picked up and disposed of by ArDOT personnel and contract; $0 to purchase materials to pickup litter by jail inmate program.

Adopt-A-Highway Litter Pickup: $653 total cost to provide bags, pick up filled bags and dispose of Adopt-A-Highway litter; The Adopt-A-Highway groups did not report the amount of litter they collected. There are currently 27 Adopt-A-Highway groups in Little Rock who have adopted 37 Miles of highway.

Street Sweeping: ArDOT spent $205,992 total cost to operate 2 vacuum sweepers in Little Rock which picked up 1,559 CYs of debris during the year.

2.1.8.4 Flood Control Projects

2.1.8.4.2 ArDOT

Neither the SWMP nor the Permit has reporting requirements for ArDOT for this item.

2.1.8.5 Pesticides, Herbicides, and Fertilizers

2.1.8.5.2 ArDOT

ArDOT has 50 herbicide applicators within the MS4 area that are certified with the Arkansas State Plant Board and the Department complies with NDPES Pesticide Permit requirements during the application of such materials. Annual training on NPDES Pesticide Permit requirements is provided to maintenance supervisors within the MS4 area. Fertilizers are applied at the minimum rate to perform their function in accordance with ArDOT Standard Specifications.

2.1.8.6 Illicit Discharges and Improper Disposal

2.1.8.6.2 ArDOT

*SWMP Reporting Requirement: The Department of Transportation will report annually the course description and dates of illicit discharge identification training classes conducted for its personnel who work within the geographical area covered by the Permit. This information will be provided to the City and will be included in the annual report submitted to the ADEQ.*

Program Activities:

Members of the Department’s NPDES Section provided annual training, including illicit discharge detection and reporting for District 6 maintenance personnel on February 13, 2018. A make-up training class will be provided on April 24, 2018. The PowerPoint slides used in the training will be posted on the Maintenance Local Area Network for later review by district personnel and a roster of personnel trained will be maintained.

2.1.8.7 Spill Prevention, Containment, and Response

2.1.8.7.2 ArDOT

ArDOT has an Oil Spill Prevention and Response Plan that is carried in ArDOT tanker vehicles and tanker vehicle operators are trained in that plan. Three supervisors attended Hazardous Materials Emergency Response Training in 1995 and all supervisors are provided with a U.S. Department of Transportation Emergency Response Guidebook. The Environmental Division provides annual training in Spill Prevention Control and Countermeasures to maintenance personnel in the District and assists District personnel in the maintenance of Pollution Prevention Manuals at each maintenance facility.

2.

2.1.8.8 Construction Site Runoff

2.1.8.9.2 ArDOT

1. *SWMP Reporting Requirement: The Department of Transportation will report annually any revisions to the Standard Specifications for Highway Construction that incorporate new BMPs for construction site runoff and erosion control.*

Program Activities: The ArDOT Standard Specifications were revised and took effect in April 2014. Wattles, Triangular Silt Dikes, and Filter Socks are included in the new Standard Specifications as approved BMPs and are being used on ArDOT construction jobs.  Also, the hydraulically applied erosion control products (HECPs) are being used on ArDOT construction jobs and their effectiveness evaluated on those projects. A Special Provision for Removing and Replacing Topsoil will be incorporated on jobs as project location and size permits.

The Erosion and Sediment Control Design and Construction Manual was updated in December of 2016. ArDOT incorporates erosion control measures into all construction contracts and obtains all necessary permits for work within the Department rights-of-way. Contractors are required to obtain all necessary permits including ADEQ general storm water permits for any work beyond the rights-of-way such as; borrow pits, stockpile locations, and waste areas. The update includes the newly revised Construction General Permit (ARR150000), Short Term Activity Authorization (STAA) guidance, and updated Best Management Practices. In addition, a Special Provision requiring contractors of ArDOT jobs disturbing an acre or more soil to be certified by the Center for Training Transportation Professionals Training (CTTP) has been implemented for all jobs let after October 1, 2018.

1. *SWMP Reporting Requirement: The Department of Transportation will report annually the course description and dates of construction site runoff training classes conducted for its personnel within the geographical area covered by the Permit.*

Program Activities:

Beginning in February 2010, the Department instituted an erosion and sediment control training and certification course through the University of Arkansas Center for Training Transportation Professionals (CTTP) to train and certify construction and maintenance personnel. The CTTP training is also open to Department contractors. Additionally, annual NPDES Stormwater training was developed and provided by personnel from the Department’s Environmental Division. In-person training for Maintenance and Construction personnel was conducted on February 13, 2018 and Make-up training will be on April 24, 2018. The PowerPoint slides used in the trainings will be posted on the Maintenance Local Area Network (LAN); and Construction training is provided on the Construction LAN. Training rosters are maintained for all employees who attended or completed annual maintenance or construction training.

1. *SWMP Reporting Requirement: The Department of Transportation will report annually the job numbers, job locations, and dates of site visits.*

Program Activities:

Members of the Department’s Environmental Division visited the following area jobs during the Permit year. Job 061102 was visited since there were few active jobs within the city of Little Rock; however the job is within the highly urbanized area.

|  |  |  |
| --- | --- | --- |
| Date | Location | Job Number |
| 3/2/2017 | Union Pacific RR Overpass (Arch St.)(LR) (S) | 060395 |
| 6/21/2017 | Union Pacific RR Overpass (Arch St.)(LR) (S) | 060395 |
| 9/20/2017 | Union Pacific RR Overpass (Arch St.)(LR) (S) | 060395 |
| 10/3/2017 | Hwy. 67 Interchange (Cabot) | 061102 |
| 1/25/2018 | Hwy. 67 Interchange (Cabot) | 061102 |

2.1.8.9 Monitoring and Reporting

2.1.8.12.2 ArDOT

The Permit doesn’t require ArDOT to sample or report for this requirement.

2.1.8.10 Legal Authority

2.1.8.13.2 ArDOT

ArDOT works cooperatively with the City and ADEQ to eliminate illicit discharges into its right-of-way.

2.1.8.11 SWMP Resources

2.1.8.12.2 ArDOT

Summary financial information is provided in Sections 2.1.8.1.2, 2.1.8.3.2, and 2.1.8.15.2 of this report.

2.1.8.14 Capabilities

2.1.8.15.2 ArDOT

ArDOT has **3** crews with a total of **71** personnel dedicated to working in the Little Rock metropolitan area that have an annual salary of approximately $**2,052.00.** These crews can be supported by other crews that are assigned as needed throughout District Six.

**2.2 Proposed Changes to the Storm Water Management Program**

2.2.2 ArDOT

ArDOT has no proposed changes to the SWMP for the coming year.

**2.3 Revisions to Control and Fiscal Analysis**

2.3.2 ArDOT

No revisions to this requirement are necessary.

**2.4 Monitoring Data Summary**

2.4.1 ArDOT

The permit doesn’t require ArDOT to sample.

**2.5 Estimated Annual Expenditures/Projected Budget for Budget Year 2017**

2.5.2 ArDOT

ARDOT costs to implement the SWMP part of the general operating budget are anticipated to be approximately $**900,000** for the upcoming permit year.

**2.6 Summary of Enforcement Actions, Inspections, and Public Education Programs**

2.6.2 ArDOT

ArDOT conducts inspections of its construction projects and maintenance facilities in accordance with existing regulations and ArDOT policy. Two stormwater related articles were published in the Department’s *Arkansas Highways* magazine in the May/June Magazine of 2017. The articles published in the Arkansas Highways Magazine are featured on the Stormwater section of the website for easier access. This publication is provided to all Department personnel and the public statewide. Several hundred stormwater education brochures were distributed during environmental education events as well as Arkansas Environmental Education Association events, the Arkansas State Fair, DrainSmArt and other community related activities throughout the year. The Department has added several stormwater-related educational brochures in English and Spanish on its website. The Department has also made stormwater educational material available at six public libraries in the Little Rock area.

**2.7 Water Quality Improvements/Degradations**

2.7.2 ArDOT

The Permit doesn’t require ArDOT to perform monitoring.

**3.1 Program Implementation and Compliance**

3.1.2 ArDOT

As identified in Section 2.1 the activities required by the Permit and the SWMP have been implemented and are functioning as planned.

**3.2 Controls Effectiveness Assessment**

3.2.2 ArDOT

ArDOT has expended a significant amount of money and personnel resources on such things as personnel training, litter collection, maintenance and repair of the drainage system, and other activities detailed in Section 2.1. While there is no way to measure the impact of these measures on the quality of surface water within the MS4 area, the Department believes the controls implemented are effective.

**3.3 Monitoring Data Review**

3.3.2 ArDOT

The Permit doesn’t require ArDOTto perform any monitoring.

**3.4 SWMP Modifications**

3.4.2 ArDOT

No modifications are recommended at this time.