

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No. MO-0113000

Owner: Advanced Disposal Services Oak Ridge Landfill, Inc.
Address: 1741 Sulphur Spring Road, Ballwin, MO 63021

Continuing Authority: Same as above
Address: Same as above

Facility Name: Advanced Disposal Services Oak Ridge Landfill, Inc.
Facility Address: 1741 Sulphur Spring Road, Ballwin, MO 63021

Legal Description: See Page 2
UTM Coordinates: See Page 2

Receiving Stream: See Page 2
First Classified Stream and ID: See Page 2
USGS Basin & Sub-watershed No.: See Page 2

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

FACILITY DESCRIPTION

Outfalls # 002, #003 & #005 - Sanitary Waste Landfill >- SIC # 4953
Facility description – See Page 2

Leachate cannot be discharged. Stormwater that has come into contact with leachate is considered leachate and cannot be discharged. Leachate and stormwater that has come into contact with leachate must be managed in accordance with the provisions contained in the Missouri Solid Waste Management Laws, regulations and Sanitary Landfill Operating Permit; and Hazardous Waste Program (if applicable).

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

August 1, 2013 July 7, 2016
Effective Date Modification Date

Sara Parker Pauley, Director, Department of Natural Resources

June 30, 2018
Expiration Date

John Madras, Director, Water Protection Program

FACILITY DESCRIPTION (continued)

Outfalls #001, #002, #003, #004 and #005 - Sanitary Landfill – SIC# 4953

Outfall #001- (eliminated) – combined with #004 and monitored through #005

Outfall #002- Sanitary Landfill/Stormwater Runoff
Sedimentation Basin & BMPs

Legal Description: NE ¼, NE ¼, Sec. 14, T44N, R4E, St. Louis County
UTM Coordinates: X = 715021, Y = 4270854
Receiving Stream: Unnamed Tributary to Fishpot Creek (U)
First Classified Stream and ID: Fishpot Creek (P) (02186) (303d)
USGS Basin & Sub-watershed No.: (07140102 – 1002)
Flow is dependent on precipitation.
Actual flow is 0.00248 MGD.

Outfall #003- Sanitary Landfill/Storm Water Runoff - SIC #4953
BMPs.

Legal Description: SE ¼, NE ¼, Sec. 14, T44N, R4E, St. Louis County
UTM Coordinates: X = 715176, Y = 4269661
Receiving Stream: Meramec River (P)
First Classified Stream and ID: Meramec River (P) (02185) (303d)
USGS Basin & Sub-watershed No.: (07140102 – 1002)
Flow is dependent on precipitation.
Actual flow is 0.00465 MGD.

Outfall #004 – (eliminated) combined with #001 and monitored through #005.

Outfall #005 (outfall #001 and #004 combined) – Sanitary Landfill/Storm Water Runoff - SIC #4953
BMPs.

Legal Description: SW ¼, NW ¼, Sec 13, T44N, R4E St. Louis County
UTM Coordinates: X = 715240, Y = 4270375
Receiving Stream: Unnamed Tributary to Fishpot Creek (U)
First Classified Stream and ID: Fishpot Creek (P) (02186) (303d)
USGS Basin & Sub-watershed No.: (07140102 – 1002)
Flow is dependent on precipitation.
Actual flow is 0.005 MGD.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PERMIT NUMBER MO-0113000

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until two years from the day of issuance of this permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | INTERIM EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
|--|---------|------------------------------|----------------|-----------------|-------------------------|--------------------|
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfalls #002, #003 & #005</u> | | | | | | |
| Flow | MGD | * | | * | Once/quarter** | instantaneous est. |
| Rainfall | Inches | * | | * | Daily measurement | grab |
| Chemical Oxygen Demand | mg/L | 120 | | 90 | Once/quarter** | grab |
| Biochemical Oxygen Demand ₅ | mg/L | 45 | | 30 | Once/quarter** | grab |
| Total Suspended Solids | mg/L | 80 | | 60 | Once/quarter** | grab |
| pH | SU | *** | | *** | Once/quarter** | grab |
| Settleable Solids | mL/L/hr | 1.5 | | 1.0 | Once/quarter** | grab |
| Oil & Grease | mg/L | 15 | | 10 | Once/quarter** | grab |
| Ammonia as N | mg/L | * | | * | Once/quarter** | grab |
| Nitrate as N | mg/L | * | | * | Once/quarter** | grab |
| Total Phosphorous | mg/L | * | | * | Once/quarter** | grab |
| Chloride+ Sulfate | mg/L | * | | * | Once/quarter** | grab |
| Fluoride | mg/L | * | | * | Once/quarter** | grab |
| Benzene | µg/L | * | | * | Once/quarter** | grab |
| Ethylbenzene | µg/L | * | | * | Once/quarter** | grab |
| Toluene | µg/L | * | | * | Once/quarter** | grab |
| Total Xylene | µg/L | * | | * | Once/quarter** | grab |

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY. THE FIRST REPORT IS DUE **OCTOBER 28, 2013**. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I, STANDARD CONDITIONS DATED October 1, 1980, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PERMIT NUMBER MO-0113000

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until two years from the day of issuance of this permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | INTERIM EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
|--|-------|------------------------------|----------------|-----------------|-------------------------|-------------|
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfalls #002, #003 & #005</u> | | | | | | |
| Antimony, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Arsenic, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Barium, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Beryllium, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Boron, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Cadmium, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Chromium (III), Total Recoverable | µg/L | * | | * | Once/year | grab |
| Chromium (VI), Dissolved | µg/L | * | | * | Once/year | grab |
| Cobalt, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Copper, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Iron, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Lead, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Manganese, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Mercury, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Nickel, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Selenium, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Silver, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Thallium, Total Recoverable | µg/L | * | | * | Once/year | grab |
| Zinc, Total Recoverable | µg/L | * | | * | Once/year | grab |

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE **OCTOBER 28, 2014**. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I, STANDARD CONDITIONS DATED October 1, 1980, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PERMIT NUMBER MO-0113000

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective two years plus one day from the day of issuance and remain in effect until expiration of this permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
|--|---------|----------------------------|----------------|-----------------|-------------------------|--------------------|
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfalls #002, #003 & #005</u> | | | | | | |
| Flow | MGD | * | | * | Once/quarter** | instantaneous est. |
| Rainfall | Inches | * | | * | Daily measurement | grab |
| Chemical Oxygen Demand | mg/L | 120 | | 90 | Once/quarter** | grab |
| Biochemical Oxygen Demand ₅ | mg/L | 45 | | 30 | Once/quarter** | grab |
| Total Suspended Solids | mg/L | 80 | | 60 | Once/quarter** | grab |
| pH | SU | *** | | *** | Once/quarter** | grab |
| Settleable Solids | mL/L/hr | 1.5 | | 1.0 | Once/quarter** | grab |
| Oil & Grease | mg/L | 15 | | 10 | Once/quarter** | grab |
| Ammonia as N | mg/L | 12.1 | | 4.6 | Once/quarter** | grab |
| Nitrate as N | mg/L | 16.5 | | 8.2 | Once/quarter** | grab |
| Total Phosphorous | mg/L | * | | * | Once/quarter** | grab |
| Chloride + Sulfate | mg/L | 1000 | | | Once/quarter** | grab |
| Fluoride | mg/L | 6.5 | | 3.3 | Once/quarter** | grab |
| Benzene | µg/L | 116.3 | | 58 | Once/quarter** | grab |
| Ethylbenzene | µg/L | 524.3 | | 261.3 | Once/quarter** | grab |
| Toluene | µg/L | 328 | | 163.4 | Once/quarter** | grab |
| Total Xylene | µg/L | * | | * | Once/quarter** | grab |

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE OCTOBER 28, 2015. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I, STANDARD CONDITIONS DATED October 1, 1980, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PERMIT NUMBER MO-0113000

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective two years plus one day from the day of issuance and remain in effect until expiration of this permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

| OUTFALL NUMBER AND EFFLUENT PARAMETER(S) | UNITS | FINAL EFFLUENT LIMITATIONS | | | MONITORING REQUIREMENTS | |
|--|-------|----------------------------|----------------|-----------------|-------------------------|-------------|
| | | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| <u>Outfalls #002, #003 & #005</u> | | | | | | |
| Antimony, Total Recoverable | µg/L | 7200 | | 3600 | Once/year | grab |
| Arsenic, Total Recoverable | µg/L | 32.80 | | 16.34 | Once/year | grab |
| Barium, Total Recoverable | µg/L | 3280 | | 1634 | Once/year | grab |
| Beryllium, Total Recoverable | µg/L | 8.1 | | 4.0 | Once/year | grab |
| Boron, Total Recoverable | µg/L | 3280 | | 1634 | Once/year | grab |
| Cadmium, Total Recoverable | µg/L | 7.8 | | 3.9 | Once/year | grab |
| Chromium (III), Total Recoverable | µg/L | 2508.5 | | 1250.2 | Once/year | grab |
| Chromium (VI), Dissolved | µg/L | 15.2 | | 4.9 | Once/year | grab |
| Cobalt, Total Recoverable | µg/L | 1639 | | 816.9 | Once/year | grab |
| Copper, Total Recoverable | µg/L | 20.8 | | 10.4 | Once/year | grab |
| Iron, Total Recoverable | µg/L | 1639 | | 816.9 | Once/year | grab |
| Lead, Total Recoverable | µg/L | 138.7 | | 69.1 | Once/year | grab |
| Manganese, Total Recoverable | µg/L | 5.08 | | 3.28 | Once/year | grab |
| Mercury, Total Recoverable | µg/L | 2.8 | | 1.4 | Once/year | grab |
| Nickel, Total Recoverable | µg/L | 660.2 | | 329.1 | Once/year | grab |
| Selenium, Total Recoverable | µg/L | 9.3 | | 4.7 | Once/year | grab |
| Silver, Total Recoverable | µg/L | 7.8 | | 3.9 | Once/year | grab |
| Thallium, Total Recoverable | µg/L | 10.3 | | 5.1 | Once/year | grab |
| Zinc, Total Recoverable | µg/L | 168.6 | | 84 | Once/year | grab |

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE **OCTOBER 28, 2016**. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Parts I, STANDARD CONDITIONS DATED October 1, 1980, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitoring requirement only.

** See table below for quarterly sampling schedule.

| Minimum Sampling Requirements | | | |
|--------------------------------------|-----------------------------|--|------------------------|
| Quarter | Months | Effluent Parameters | Report is Due |
| First | January, February, March | Sample at least once during any month of the quarter | April 28 th |
| Second | April, May, June | Sample at least once during any month of the quarter | July 28th |
| Third | July, August, September | Sample at least once during any month of the quarter | October 28th |
| Fourth | October, November, December | Sample at least once during any month of the quarter | January 28th |

*** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 pH units

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.
3. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established by the Director in accordance with 40 CFR 122.44(f).
 - (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
4. Report as no-discharge when a discharge does not occur during the report period.
 5. Water Quality Standards
 - (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
 - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;

C. SPECIAL CONDITIONS

- (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
6. The permittee shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must be prepared within 30 days and implemented within 90 days of permit issuance. The SWPPP must be kept on-site and should not be sent to the Department unless specifically requested. The SWPPP must be reviewed and updated, if needed, every five (5) years or as site conditions change. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.

The SWPPP must include the following:

- (a) A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter storm water. Minimum BMPs are listed in SPECIAL CONDITIONS #7 below.
 - (b) The SWPPP must include a schedule for a bi-monthly site inspection and a brief written report. The inspections must include observation and evaluation of BMP effectiveness. Deficiencies must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report, including photographs. Any corrective measure that necessitates major construction may also need a construction permit. Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to DNR personnel upon request.
 - (c) A provision for designating an individual to be responsible for environmental matters.
 - (d) A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of DNR.
7. Permittee shall adhere to the following minimum Best Management Practices:
- (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
 - (b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - (c) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMP's such as plastic lids and/or portable spill pans to prevent the commingling of storm water with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
 - (d) Provide good housekeeping practices on the site to keep trash from entry into waters of the state.
 - (e) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property. This could include the use of silt fences and/or sediment basins, exit pads and other acceptable related practices if needed, to comply with effluent limits.
8. The purpose of the SWPPP and the BMPs listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was not effective in preventing pollution [10 CSR 20-2.010(56)] of waters of the state, and corrective actions means the facility took steps to eliminate the deficiency.
9. All fueling facilities present on the site shall adhere to applicable federal and state regulations concerning underground storage, above ground storage, and dispensers, including spill prevention, control and counter measures.

C. SPECIAL CONDITIONS

10. Substances, regulated by federal law under the Resource Conservation and Recovery Act (RCRA) and Comprehensive Environmental Response, Compensation, and Liability Act (CERLA), that are transported, stored, or used for maintenance, cleaning or repair, shall be managed according to RCRA and CERLA.

REPORTING OF EFFLUENT VIOLATIONS

If any of the sampling results from any of the outfalls show any violation of the permit discharge limitations, written notification shall be made to the Department of Natural Resources within five (5) days of notification of analytical results. Notification shall indicate the date(s) of sample collection, the analytical results, and permit number, and shall include a statement concerning the revisions or modifications in management practices that are being implemented to address the violation of the limitations that occurred.

After a violation has been reported, a sample of stormwater runoff resulting from the next rainfall greater than 0.1 inch shall be collected at outfall(s) for which the violation occurred. Analytical results of this sample shall be submitted in writing to the Department of Natural Resources (this paragraph supersedes Part I, Section B: e. (A). Noncompliance Notification).

RECORDS, RETENTION AND RECORDING

All sampling data shall be maintained by the permittee for a period of five (5) years and shall be supplied to the Department of Natural Resources upon request (supersedes Part I, Section A:7. Records Retention). A copy of all of the sampling data must be submitted with an application for reissuance of this permit.

D. SCHEDULE OF COMPLIANCE

The facility shall attain compliance with final effluent limitations for all parameter(s) as soon as reasonably achievable or no later than **two years** of the effective date of this permit. The facility shall ensure that the selected analytical methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations.

1. Within six months of the effective date of this permit, the permittee shall report progress made in attaining compliance with the final effluent limits.
2. The permittee shall submit interim progress reports detailing progress made in attaining compliance with the final effluent limits every 12 months from issuance date.
3. Within two years of the effective date of this permit, the permittee shall attain compliance with the final effluent limits, for all parameters.

Please submit progress reports to the Missouri Department of Natural Resources, St. Louis Regional Office, located at 7545 S. Lindbergh Blvd. Ste. 210, St. Louis MO 63125.

**MISSOURI DEPARTMENT OF NATURAL RESOURCES
STATEMENT OF BASIS
MO-0113000
OAK RIDGE LANDFILL**

This Statement of Basis (Statement) gives pertinent information regarding major modification to the above listed operating permit with the need for a public comment process.

A Statement is not an enforceable part of a Missouri State Operating Permit.

Part I – Facility Information

Facility Type: Industrial/Landfill
Facility SIC Code(s): #4953

Facility Description:

Advanced Disposal Services Oak Ridge Landfill, Inc. is a sanitary landfill located at 1741 Sulphur Spring Road, Ballwin, MO 63021 is currently owned by Advanced Disposal Services Oak Ridge Landfill, Inc. and previously known as Onyx Oak Ridge Landfill, Inc. and Veolia Oak Ridge Landfill. There are three existing outfalls #002, #003 & #005. All of the outfalls discharge stormwater runoff from the site. Outfalls #001 & #004 were eliminated; they are combined and monitored through outfall #005. The landfill is in a process of being closed. A final cap was installed at the end of summer of 2012.

Part II – Modification Rationale

This operating permit is hereby modified to reflect a change in the daily maximum and monthly average limits for xylene. The published permit contained substantial errors in the calculation of the xylene limits for this facility, as well as an error in units. This modification changes them to limits that are reflective of state water quality standards.

Total Xylene

Monitoring only. This reflects a modification from the 1.6 µg/L daily maximum and 0.8 µg/L monthly average limits previously issued in this permit. It is in the best professional judgment of the modifying permit writer that this facility is not subject to drinking water standards, due the receiving stream not having them as a use designation. In addition, review of DMRs for this facility show no reasonable potential for harm to aquatic life or human health under the general criteria. Due to the nature of landfills, many pollutants could possibly be found in the effluent of this site. Xylene is a component of fuels, oils, ink, rubber, and adhesives. All of these items have a high potential to be found in landfill waste, and therefore xylene remains a pollutant of concern at this site. Monitoring will be continued for this reason.

| | |
|----------------------------|-----------------------------------|
| Previous limits: | New Limits: |
| Daily Maximum = 1.6 µg/L | Daily Maximum = monitoring only |
| Monthly Average = 0.8 µg/L | Monthly Average = monitoring only |

No other changes were made at this time. The original fact sheet is included below for record keeping purposes, and for rationales and explanations of other parameters.

Part III – Administrative Requirements

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

- The Public Notice period for this modification was from May 27, 2016 to June 27, 2016. No comments were received.

DATE OF STATEMENT OF BASIS: 05/06/2016

COMPLETED BY:

**AMBERLY SCHULZ, ENVIRONMENTAL SPECIALIST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION - INDUSTRIAL WASTEWATER UNIT
(573) 751-8049
Amberly.schulz@dnr.mo.gov**

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
INDUSTRIAL STORM WATER RUNOFF FROM LANDFILL ACTIVITIES
STANDARD INDUSTRIAL CLASSIFICATION (SIC): 4953
FOR THE PURPOSE OF RENEWAL OF
MO-0113000
Advanced Disposal Services Oak Ridge Landfill, Inc.

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

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Fact Sheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Fact Sheet is not an enforceable part of an operating permit.

Part I – Applicability & Facility Description

Landfill are to obtain a MSOP in accordance the MCWL, documented above, and its implementing regulations 10 CSR 20-6.010(1)(A); 10 CSR 20-6.010(5)(A); and 10 CSR 20-6.200(1)(A). Storm water runoff from landfills are considered Industrial activities in accordance with 10 CSR 20-6.200(2)(B)3.B. Closed landfills may also be required to maintain a MSOP in accordance with 10 CSR 20.600(1)(B)10.

Facility Description:

Advanced Disposal Services Oak Ridge Landfill, Inc. is a sanitary landfill located at 1741 Sulphur Spring Road, Ballwin, MO 63021 is currently owned by Advanced Disposal Services Oak Ridge Landfill, Inc, Inc. and previously known as Onyx Oak Ridge Landfill, Inc. and Veolia Oak Ridge Landfill. There are three existing outfalls #002, #003 & #005. All of the outfalls discharge stormwater runoff from the site. Outfalls #001 & #004 were eliminated; they are combined and monitored through outfall #005. The landfill is in a process of being closed out. A final cap was installed at the end of summer of 2012 and the facility is in the process of vegetating the site.

Leachate must be handled in a manner where discharge is not allowed and in accordance with Hazardous Waste Program (if applicable) and Solid Waste Management Program requirements.

Actual flow dependent upon precipitation.

Part II – Outfall Information & Descriptions

OUTFALL(S) TABLE:

| OUTFALL | DESIGN FLOW (CFS) | TREATMENT LEVEL | EFFLUENT TYPE | DISTANCE TO CLASSIFIED SEGMENT (MI) |
|---------|-------------------|-----------------|---------------------------------|-------------------------------------|
| 002 | Variable | BMP* | Industrial – Storm water runoff | 0.37 |
| 003 | Variable | BMP* | Industrial – Storm water runoff | 0.47 |
| 005 | Variable | BMP* | Industrial – Storm water runoff | 0.01 |

* - BMP means Best Management Practices

Water Quality History:

Numerous violations were reported by this facility from their permit limits for metals and other parameters. The facility is utilizing a lab that is incapable of detecting with accuracy metal values below 5 ug/L. Fishpot Creek and the Meramec River are listed on the 2012(303 d) impaired list, Fishpot Creek is on the impaired listed for Chloride and E.coli, other data collected for Fishpot Creek had indicated possible low Dissolved Oxygen. Meramec River impairment is due to Lead.

Part III – Receiving Stream Information

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

As per Missouri’s Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category list effluent limitations for specific parameters, which are presented in each outfall’s Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

- Missouri or Mississippi River [10 CSR 20-7.015(2)]:
- Lake or Reservoir [10 CSR 20-7.015(3)]:
- Losing [10 CSR 20-7.015(4)]:
- Metropolitan No-Discharge [10 CSR 20-7.015(5)]:
- Special Stream [10 CSR 20-7.015(6)]:
- Subsurface Water [10 CSR 20-7.015(7)]:
- All Other Waters [10 CSR 20-7.015(8)]:

10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream’s beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

RECEIVING STREAM(S) TABLE:

| WATERBODY NAME | CLASS | WBID | DESIGNATED USES* | 8-DIGIT HUC | EDU** |
|----------------------------|-------|------|---------------------------------|-------------|---------|
| Tributary to Fishpot Creek | U | NA | NA | 07140102 | Meramec |
| Meramec River | P | 2185 | LWW,AQL,CLF,WBC***, SCRDWS &IND | | |

- * - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).
- ** - Ecological Drainage Unit
- *** - UAA has not been conducted.

Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- All limits in this Factsheet are at least as protective as those previously established; therefore, backsliding does not apply.

ANTIDEGRADATION:

In accordance with Missouri’s Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body’s available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

- Renewal, no degradation is proposed and no further review is necessary.

COMPLIANCE AND ENFORCEMENT:

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

Not Applicable ;

The permittee/facility is not currently under Water Protection Program enforcement action.

FLOW BASED PERMITTING:

A standard mass-balance equation cannot be calculated for storm water from this facility because the flow from the facility and flow in the receiving stream cannot be determined for conditions on any given day. The amount of stormwater discharged from the facility will vary based on previous rainfall, soil saturation, humidity, detention time, BMPs, surface permeability, etc. Flow in the receiving stream will vary based on similar climactic conditions, size of watershed, amount of surfaces with reduced permeability (houses, parking lots, and the like) in the watershed, hydrogeology, topography, etc.

It is likely that sufficient rainfall to cause a discharge for four continuous days from a facility will also cause some significant amount of flow in the receiving stream. Chronic WQSs are based on a four-day exposure (except Ammonia, which is based on a thirty day exposure). In the event that discharge does occur from this facility for four continuous days, some amount of flow will occur in the receiving stream. This flow will dilute stormwater discharges from a facility. For these reasons, most industrial stormwater facilities have limited potential to cause a violation of chronic water quality standards in the receiving stream.

Sufficient rainfall to cause a discharge for one hour or more from a facility would not necessarily cause significant flow in a receiving stream. Acute WQSs are based on one hour of exposure, and must be protected at all times in unclassified streams, and within mixing zones of class P streams [10 CSR 20-7.031(3) and (4)]. Therefore, industrial stormwater facilities with toxic contaminants do have the potential to cause a violation of acute WQSs if those toxic contaminants occur in sufficient amounts.

It is due to the items stated above that staff drafting this fact sheet are unable to perform statistical Reasonable Potential Analysis and calculate Wasteload Allocations via a mass-balance equation for effluent limit determination. However, staff may use their best professional judgment in determining if a facility has a potential to violate Missouri's Water Quality Standards. Effluent limitations are based on actual criteria that are subjected to Long Term Averages and then converted into Maximum Daily Limits or Average Monthly Limits.

SCHEDULE OF COMPLIANCE (SOC):

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Applicable ;

This permit contains a SOC. The facility will have two years from the day of issuance to meet its effluent final limits.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002), BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Applicable ;

A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

WLA MODELING:

Not Applicable ;

A WLA study was either not submitted or determined not applicable by department staff.

WATER QUALITY STANDARDS:

Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Applicable ;

In accordance with the Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System. Furthermore, WET testing is a means by which the department determines that [10 CSR 20-7.031(3)(D, F, & G)] are being met by the permitted facility. In addition to justification for the WET testing, WET tests are required under [10 CSR 20-6.010(8)(A)4] to be performed by specialist who are properly trained in conducting the test according to the methods prescribed by the Federal Government as referenced in [40 CFR Part 136]. WET test will be required by all facilities meeting the following criteria: Due to the fact that it is near impossible to collect "first flush" storm water runoff from landfills, it is highly suggested that WET testing be not required. However, the WET testing portion does remain due to the fact that future considerations may require the need for WET testing from landfills (i.e. landfill runoff causing fish-kill...).

- Facility is a designated Major.
- Facility continuously or routinely exceeds its design flow.
- Facility (industrial) that alters its production process throughout the year.
- Facility handles large quantities of toxic substances, or substances that are toxic in large amounts.
- Facility has Water Quality-based Effluent Limitations for toxic substances (other than NH₃)
- Facility is a municipality or domestic discharger with a Design Flow \geq 22,500 gpd.
- Other – please justify.

Not Applicable ;

At this time, the permittee is not required to conduct WET test for this facility.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Applicable ;

This facility discharges to a 303(d) listed stream.

Fishpot Creek and the Meramec River are listed on the 2012 303(d) List of impaired waters. Fishpot Creek is impaired by excessive Chloride and *E.coli*, other data collected for Fishpot Creek indicate possible low Dissolved Oxygen. The Meramec River is impaired due to excessive lead and *E. coli*.

Part V – Effluent Limits Determination

Outfalls #002, #003& #005 – Effluent Limitation Table:

Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

| PARAMETER | UNIT | BASIS FOR LIMITS | DAILY MAXIMUM | WEEKLY AVERAGE | MONTHLY AVERAGE | MODIFIED | PREVIOUS PERMIT LIMITATIONS |
|--------------------------|---------|------------------|---------------|----------------|-----------------|----------|-----------------------------|
| FLOW | gpd | 1 | * | | * | NO | SAME |
| RAINFALL | Inches | 9 | * | | * | NO | SAME |
| COD | mg/L | 9 | 120 | | 90 | YES | 120/90 |
| BOD ₅ | mg/L | 1/9 | 45 | | 30 | YES | 60/45 |
| TSS | mg/L | 1 | 80 | | 60 | NO | SAME |
| PH | SU | 1 | 6.5 – 9.0 | | 6.5 – 9.0 | YES | 6.0-9.0 |
| SETTLABLE SOLIDS | mL/L/hr | 1/9 | 1.5 | | 1.0 | NO | SAME |
| OIL & GREASE | mg/L | 1/2/9 | 15 | | 10 | NO | SAME |
| TOTAL AMMONIA AS N | mg/L | 1/2/5/9 | 12.1 | | 4.6 | YES | * |
| NITRATE AS N | mg/L | 1/2/9 | 16.5 | | 8.2 | YES | * |
| TOTAL PHOSPHORUS | mg/L | 1/9 | * | | * | NO | SAME |
| CHLORIDE+ SULFATE | mg/L | 1/2/9 | 1000 | | | NO | * |
| FLUORIDE | mg/L | 1/2/9 | 6.5 | | 3.3 | YES | * |
| BENZENE | µg/L | 1/2/9 | 116.3 | | 58 | YES | * |
| ETHYLBENZENE | µg/L | 1/2/9 | 524.3 | | 261.3 | YES | * |
| TOLUENE | mg/L | 1/2/9 | 328 | | 163.4 | YES | * |
| TOTAL XYLENE | mg/L | 1/2/9 | 1.6 | | 0.8 | YES | * |
| ANTIMONY, TR | µg/L | 1/2/9 | 7200 | | 3600 | YES | * |
| ARSENIC, TR | µg/L | 1/2/9 | 32.80 | | 16.34 | YES | * |
| BARIUM, TR | µg/L | 1/2/9 | 3280 | | 1634 | YES | * |
| BERYLLIUM, TR | µg/L | 1/2/9 | 8.1 | | 4.0 | YES | * |
| BORON, TR | µg/L | 1/2/9 | 3280 | | 1634 | YES | * |
| CADMIUM, TR | µg/L | 1/2/9 | 7.8 | | 3.9 | YES | * |
| CHROMIUM (III), TR | µg/L | 1/2/9 | 2508.5 | | 1250.2 | YES | * |
| CHROMIUM (VI), DISSOLVED | µg/L | 1/2/9 | 15.2 | | 4.9 | YES | * |
| COBALT, TR | µg/L | 1/2/9 | 1639 | | 816.9 | YES | * |
| COPPER, TR | µg/L | 1/2/9 | 20.8 | | 10.4 | YES | * |
| IRON, TR | µg/L | 1/2/9 | 1639 | | 816.9 | YES | * |
| LEAD, TR | µg/L | 1/2/9 | 138.7 | | 69.1 | YES | * |
| MANGANESE, TR | µg/L | 1/2/9 | 5.08 | | 3.28 | YES | * |
| MERCURY, TR | µg/L | 1/2/9 | 2.8 | | 1.4 | YES | * |
| NICKEL, TR | µg/L | 1/2/9 | 660.2 | | 329.1 | YES | * |
| SELENIUM, TR | µg/L | 1/2/9 | 9.3 | | 4.7 | YES | * |
| SILVER, TR | µg/L | 1/2/9 | 7.8 | | 3.9 | YES | * |
| THALLIUM, TR | µg/L | 1/2/9 | 10.3 | | 5.1 | YES | * |
| ZINC, TR | µg/L | 1/2/9 | 168.6 | | 84 | YES | * |

* - Monitoring requirement only

** - Parameter not previously established in previous state operating permit.

TR – means Total Recoverable

Basis for Limitations Codes:

- | | |
|--|------------------------------------|
| 1. State or Federal Regulation/Law | 7. Antidegradation Policy |
| 2. Water Quality Standard (includes RPA) | 8. Water Quality Model |
| 3. Water Quality Based Effluent Limits | 9. Best Professional Judgment |
| 4. Lagoon Policy | 10. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy | 11. WET Test Policy |
| 6. Dissolved Oxygen Policy | 12. Antidegradation Policy/Review |

OUTFALLS #002, #003 & #005 – DERIVATION AND DISCUSSION OF LIMITS:

- **Flow.** Monitoring only requirement in accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the department, which may require the submittal of an operating permit modification to determine an alternate location for flow monitoring.
- **Rainfall.** Monitoring only requirement. Precipitation data obtained from DMRs is used to aid in the determination of this facilities specific runoff coefficient and theoretical loading in the watershed.
- **Chemical Oxygen Demand (COD).** Effluent limitations of 120 mg/L as a Daily Maximum and 90 mg/L as a Monthly Average are applicable to this facility and are consistent with other landfill operating permits. Effluent limitations have been retained from previous state operating permit.
- **Biochemical Oxygen Demand (BOD₅).** Effluent limitations of 45 mg/L as a Daily Maximum and 30 mg/L as a Monthly Average are applicable to this facility and are consistent with other landfill operating permits. Effluent limitations have been retained from previous state operating permit.
- **Total Suspended Solids (TSS).** Effluent limitations of 100 mg/L as a Daily Maximum and 50 mg/L as a Monthly Average are applicable to this facility and are consistent with other landfill operating permits. Effluent limitations have been retained from previous state operating permit.
- **pH.** Effluent limitation range is from 6.5 to 9.0 Standard pH Units (SU), as per [10 CSR 20-7.031(4)(E)]. pH is not to be averaged.
- **Settleable Solids.** Effluent limitations of 1.5 mL per L per hour as a Daily Maximum and 1.0 mL per L per hour as a Monthly Average are applicable and are consistent with other landfill operating permits.
- **Oil & Grease.** Conventional pollutant, effluent limitation for protection of aquatic life; 10 mg/L monthly average, 15 mg/L daily maximum.
- **Total Ammonia Nitrogen.** Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(4)(B)7.C. & Table B3]. Acute Criteria is available for Total Ammonia as N. No mixing considerations allowed; therefore, WLA = Acute Criteria.

Summer & Winter

Acute WLA = 12.1 mg/L

$LTA_a = 12.1 \text{ mg/L} (0.321) = 3.9 \text{ mg/L}$

$MDL = 3.9 \text{ mg/L} (3.11) = 12.1 \text{ mg/L}$

$AML = 3.9 \text{ mg/L} (1.19) = 4.6 \text{ mg/L}$

[CV = 0.6, 99th Percentile]

[CV = 0.6, 99th Percentile]

[CV = 0.6, 95th Percentile, n = 30]

- **Nitrate as N.** This facility discharge to a receiving stream with the designated uses of DWS and GRW, therefore. DWS or GRW criteria is 10 mg/L.

WLA = 10 mg/L

$LTA = 10 \text{ mg/L} (0.527) = 5.3 \text{ mg/L}$

$MDL = 5.3 (3.11) = 16.5 \text{ mg/L}$

$AML = 5.3 (1.55) = 8.2 \text{ mg/L}$

[CV = 0.6, 99th Percentile]

[CV = 0.6, 99th Percentile]

[CV = 0.6, 95th Percentile, n = 4]

- **Phosphorous.** Monitoring only.
- **Chloride + Sulfate.** In accordance with 10CSR 20-7.0314(4) (L), Sulfate and Chloride limit for protection of Aquatic Life for streams with 7Q10 low flow of less than one (1) cubic foot per second. The concentration of Chloride plus Sulfate shall not exceed 1000 mg/L.

- **Fluoride.** The receiving water has a designated uses of LWV, DWS, therefore Protection of (LWV, DWS, or GRW) of 4.0 mg/L is applicable as per [10 CSR 20-7.031 Table A]. No mixing considerations allowed; therefore the (criteria) = the WLA.

WLA = 4.0 mg/L

$LTA_a = 4.0 \text{ mg/L} (0.527) = 2.1 \text{ mg/L}$ [CV = 0.6, 99th Percentile]
 $MDL = 2.1 \text{ mg/L} (3.11) = 6.5 \text{ mg/L}$ [CV = 0.6, 99th Percentile]
 $AML = 2.1 \text{ mg/L} (1.55) = 3.3 \text{ mg/L}$ [CV = 0.6, 95th Percentile, n = 4]

- **Benzene.** Benzene has a HHF (Human Health – Fish Consumption), DWS, and GRW criterion, Protection of HHF of 71 µg/L is applicable as per [10 CSR 20-7.031 Table A]. No mixing considerations allowed; therefore, the HHF criteria = the WLA.

WLA = 71 µg/L

$LTA_a = 71 \text{ µg/L} (0.527) = 37.4 \text{ µg/L}$ [CV = 0.6, 99th Percentile]
 $MDL = 37.4 \text{ µg/L} (3.11) = 116.3 \text{ µg/L}$ [CV = 0.6, 99th Percentile]
 $AML = 37.4 \text{ µg/L} (1.55) = 58 \text{ µg/L}$ [CV = 0.6, 95th Percentile, n = 4]

- **Ethylbenzene.** Protection of Aquatic Life Chronic criteria of 320 µg/L is applicable as per [10 CSR 20-7.031 Table A]. No mixing considerations allowed; therefore, the HHF criteria = the WLA.

WLA = 320 µg/L

$LTA_a = 320 \text{ µg/L} (0.527) = 168.6 \text{ µg/L}$ [CV = 0.6, 99th Percentile]
 $MDL = 168.6 \text{ µg/L} (3.11) = 524.3 \text{ µg/L}$ [CV = 0.6, 99th Percentile]
 $AML = 168.6 \text{ µg/L} (1.55) = 261.3 \text{ µg/L}$ [CV = 0.6, 95th Percentile, n = 4]

- **Toluene.** Toluene does not have a AQL criteria. Protection of HHF of 200 mg/L is applicable as per [10 CSR 20-7.031 Table A]. No mixing considerations allowed; therefore, the HHF criteria = the WLA.

WLA = 200 mg/L

$LTA_a = 200 \text{ mg/L} (0.572) = 105.4 \text{ mg/L}$ [CV = 0.6, 99th Percentile]
 $MDL = 105.4 \text{ mg/L} (3.11) = 328 \text{ mg/L}$ [CV = 0.6, 99th Percentile]
 $AML = 105.4 \text{ mg/L} (1.55) = 163.4 \text{ mg/L}$ [CV = 0.6, 95th Percentile, n = 4]

- **Total Xylene.** Total Xylenes does not have an AQL or HHF criteria and will most likely not be in most landfill operating permits; however, it does have both DWS and GRW criteria of 1.0 mg/L. Protection of (DWS or GRW) of 1.0 mg/L is applicable as per [10 CSR 20-7.031 Table A]. No mixing considerations allowed; therefore, the criteria = the WLA.

WLA = 1.0 mg/L

$LTA_a = 1.0 \text{ mg/L} (0.572) = 0.53 \text{ mg/L}$ [CV = 0.6, 99th Percentile]
 $MDL = 0.53 \text{ mg/L} (3.11) = 1.6 \text{ mg/L}$ [CV = 0.6, 99th Percentile]
 $AML = 0.53 \text{ mg/L} (1.55) = 0.8 \text{ mg/L}$ [CV = 0.6, 95th Percentile, n = 4]

Metals

Effluent limitations for total recoverable metals were developed using methods and procedures outlined in EPA/505/2-90-001 and “The Metals Translator: Guidance For Calculating A Total Recoverable Permit Limit From A Dissolved Criterion” (EPA 823-B-96-007). General warm-water fishery criteria apply and hardness of 193 mg/L.

Due to the absence of contemporaneous effluent and in-stream data for total recoverable metals, dissolved metals, hardness, and total suspended solids with which to calculate metals translators, partitioning between the dissolved and absorbed phases was assumed to be minimal (Section 5.7.3, EPA/505/2-90-001). Freshwater criteria conversion factors for dissolved metals were used as the metals translator as recommended in guidance (Section 1.3, 1.5.3, and Table 1, EPA 823-B-96-007). If concurrent site-specific data for total recoverable metals, dissolved metals, hardness, and total suspended solids are provided to the department, partitioning evaluations may be considered and site-specific translators developed.

| METAL | CONVERSION FACTORS |
|--------------|--------------------|
| | ACUTE |
| Arsenic | 1.0 |
| Cadmium | 0.916 |
| Chromium III | 0.316 |
| Chromium VI | 0.982 |
| Copper | 0.960 |
| Lead | 0.695 |
| Mercury | 0.85 |
| Nickel | 0.998 |
| Silver | 0.85 |
| Zinc | 0.978 |

Conversion factors for Cd and Pb are hardness dependent. Values calculated using equation found in Section 1.3 of EPA 823-B-96-007 and hardness = 193 mg/L.

- **Antimony, Total Recoverable.** There is no conversion factor from dissolved to total recoverable for Antimony; therefore [10 CSR 20-7.031 Table A] is the criteria. No mixing allowed; therefore the criteria = the WLA. Protection of HHF criteria = 4.3 mg/L. (use DWS or GRW when applicable).

WLA = 4.3 mg/L

LTA_a = 4.3 mg/L (0.527) = 2.3 mg/L [CV = 0.6, 99th Percentile]
 MDL = 2.3 mg/L (3.11) = **7.2 mg/L** [CV = 0.6, 99th Percentile]
 AML = 2.3 mg/L (1.55) = **3.6 mg/L** [CV = 0.6, 95th Percentile, n = 4]

- **Arsenic, Total Recoverable.** Since the conversion factor is 1.0 for Arsenic; therefore [10 CSR 20-7.031 Table A] is the criteria. No mixing allowed; therefore the criteria = the WLA. Protection of AQL criteria = 0.02 mg/L.

WLA = 0.02 mg/L

LTA_a = 0.02 mg/L (0.527) = 0.01054 mg/L [CV = 0.6, 99th Percentile]
 MDL = 0.01054 mg/L (3.11) = **0.0328 mg/L** [CV = 0.6, 99th Percentile]
 AML = 0.01054 mg/L (1.55) = **0.0163 mg/L** [CV = 0.6, 95th Percentile, n = 4]

- **Barium, Total Recoverable.** There is no conversion factor from dissolved to total recoverable for Antimony; therefore [10 CSR 20-7.031 Table A] is the criteria. No mixing allowed; therefore the criteria = the WLA. Protection of DWS criteria = 2.0 mg/L.

WLA = 2.00 mg/L

LTA_a = 2.00 mg/L (0.527) = 1.054 mg/L [CV = 0.6, 99th Percentile]
 MDL = 1.054 mg/L (3.11) = **3.28 mg/L** [CV = 0.6, 99th Percentile]
 AML = 1.054 mg/L (1.55) = **1.63 mg/L** [CV = 0.6, 95th Percentile, n = 4]

- **Beryllium, Total Recoverable.** Protection of Aquatic Life criteria for Beryllium is 5.0 µg/L CCC. Beryllium does not have an Acute criteria at this time therefore the Protection of Aquatic Life chronic criteria (CCC) applies and is equal to the WLA.

WLA = 5.0 µg/L

LTA_a = 5.0. µg/L (0.527) = 2.6 µg/L [CV = 0.6, 99th Percentile]
MDL = 2.6 µg/L (3.11) = **8.1 µg/L** [CV = 0.6, 99th Percentile]
AML = 2.6 µg/L (1.55) = **4.0 µg/L** [CV = 0.6, 95th Percentile, n = 4]

- **Boron, Total Recoverable.** There is no conversion factor from dissolved to total recoverable for Boron; therefore [10 CSR 20-7.031 Table A] is the criteria. No mixing allowed; therefore the criteria = the WLA. Protection of Groundwater criteria = 2.0 mg/L.

WLA = 2.0 mg/L

LTA_a = 2.0 mg/L (0.527) = 1.054 mg/L [CV = 0.6, 99th Percentile]
MDL = 1.054 mg/L (3.11) = **3.28 mg/L** [CV = 0.6, 99th Percentile]
AML = 1.054 mg/L (1.55) = **1.63 mg/L** [CV = 0.6, 95th Percentile, n = 4]

- **Cadmium, Total Recoverable.** Protection of Aquatic Life Acute Criteria = 7.1 µg/L

Conversion for CMC = 7.1/ 0.924 = 7.7 ug/L
WLA = 7.7 µg/L

LTA_a = 7.7 µg/L (0.321) = 2.5 µg/L [CV = 0.6, 99th Percentile]
MDL = 2.5 µg/L (3.11) = **7.8 µg/L** [CV = 0.6, 99th Percentile]
AML = 2.5 µg/L (1.55) = **3.9 µg/L** [CV = 0.6, 95th Percentile, n = 4]

- **Chromium (III), Total Recoverable.** Protection of Aquatic Life Acute Criteria = 794 µg/L.

Conversion for CMC = 794.0/0.316 = 2512.7 µg/L
WLA = 2512.7 µg/L

LTA_a = 2512.7(0.321) = 806.6 µg/L [CV = 0.6, 99th Percentile]
MDL = 806.6(3.11) = **2,508.5 µg/L** [CV = 0.6, 99th Percentile]
AML = 806.6(1.55) = **1,250.2 µg/L** [CV = 0.6, 95th Percentile, n = 4]

- **Chromium (VI), Dissolved.** Protection of Aquatic Life Acute Criteria = 15 µg/L.

Conversion for CMC = 15.0/0.982 = 15.3 µg/L
WLA = 15.3 µg/L

LTA_a = 15.3(0.321) = **4.9 µg/L** [CV = 0.6, 99th Percentile]
MDL = 4.9(3.11) = **15.2 µg/L** [CV = 0.6, 99th Percentile]
AML = 4.9(1.55) = **7.6 µg/L** [CV = 0.6, 95th Percentile, n = 4]

- **Cobalt, Total Recoverable.** Livestock and Wildlife Watering (LWW) Chronic Criteria = 1000 µg/L. Cobalt does not have an Acute criteria, therefore the chronic criteria (CCC) applies and is equal to the WLA. There is no conversion factor from dissolved to Total Recoverable for Cobalt.

WLA = 1,000 µg/L

LTA_a = 1,000 µg/L (0.527) = 527.0 µg/L [CV = 0.6, 99th Percentile]
MDL = 527.0 µg/L (3.11) = **1,639.0 µg/L** [CV = 0.6, 99th Percentile]
AML = 527.0 µg/L (1.55) = **816.9 µg/L** [CV = 0.6, 95th Percentile, n = 4]

- **Copper, Total Recoverable.** Protection of Aquatic Life Acute Criteria = 20 µg/L.

Conversion for CMC = $20.0/0.960 = 20.8$ µg/L
WLA = 20.8 µg/L

$LTA_a = 20.8(0.321) = 6.7$ µg/L [CV = 0.6, 99th Percentile]
 $MDL = 6.7(3.11) = 20.8$ µg/L [CV = 0.6, 99th Percentile]
 $AML = 6.7(1.55) = 10.4$ µg/L [CV = 0.6, 95th Percentile, n = 4]

- **Iron, Total Recoverable.** Protection of Aquatic Life Chronic Criteria = 1,000 µg/L. Iron does not have an Acute criteria, therefore the chronic criteria (CCC) applies and is equal to the WLA. There is no conversion factor from dissolved to Total Recoverable for Iron.

WLA = 1,000 µg/L

$LTA_a = 1,000$ µg/L (0.527) = 527.0 µg/L [CV = 0.6, 99th Percentile]
 $MDL = 527.0$ µg/L (3.11) = **1,639.0** µg/L [CV = 0.6, 99th Percentile]
 $AML = 527.0$ µg/L (1.55) = **816.9** µg/L [CV = 0.6, 95th Percentile, n = 4]

- **Lead, Total Recoverable.** Protection of Aquatic Life Acute Criteria = 100 µg/L.

Conversion for CMC = $100.0/0.720 = 138.9$ µg/L
WLA = 138.9 µg/L

$LTA_a = 138.9(0.321) = 44.6$ µg/L [CV = 0.6, 99th Percentile]
 $MDL = 44.6(3.11) = 138.7$ µg/L [CV = 0.6, 99th Percentile]
 $AML = 44.6(1.55) = 69.1$ µg/L [CV = 0.6, 95th Percentile, n = 4]

- **Manganese, Total Recoverable.** There is no conversion factor from dissolved to total recoverable for Manganese; therefore [10 CSR 20-7.031 Table A] is the criteria. No mixing allowed; therefore the criteria = the WLA. Protection of GRW criteria = 2 µg/L,

WLA = 2.0 µg/L

$LTA_a = 2.0$ µg/L (0.527) = 1.054 µg/L [CV = 0.6, 99th Percentile]
 $MDL = 1.054$ µg/L (3.11) = **3.28** µg/L [CV = 0.6, 99th Percentile]
 $AML = 3.28$ µg/L (1.55) = **5.08** µg/L [CV = 0.6, 95th Percentile, n = 4]

- **Mercury, Total Recoverable.** Protection of Aquatic Life Acute Criteria = 2.4 µg/L.

Conversion for CMC = $2.4/0.85 = 2.8$ µg/L
WLA = 2.8 µg/L

$LTA_a = 2.8(0.321) = 0.9$ µg/L [CV = 0.6, 99th Percentile]
 $MDL = 0.9(3.11) = 2.8$ µg/L [CV = 0.6, 99th Percentile]
 $AML = 0.9(1.55) = 1.4$ µg/L [CV = 0.6, 95th Percentile, n = 4]

- **Nickel, Total Recoverable.** Protection of Aquatic Life Acute Criteria = 660 µg/L.

Conversion for CMC = $660.0/0.998 = 661.3$ µg/L = WLA

$LTA_a = 661.3(0.321) = 212.3$ µg/L [CV = 0.6, 99th Percentile]
 $MDL = 212.3(3.11) = 660.2$ µg/L [CV = 0.6, 99th Percentile]
 $AML = 212.3(1.55) = 329.1$ µg/L [CV = 0.6, 95th Percentile, n = 4]

- **Selenium, Total Recoverable.** Se has an AQL CCC only of 5.0 µg/L and DWS and GRW criteria of 50 µg/L. However, the most protective is applicable; thus, the AQL CCC should be the only criteria used Selenium does not have an Acute criteria at this time; therefore, the Protection of Aquatic Life Chronic Criteria (CCC) of 5.0 µg/L is applicable. No mixing allowed; therefore, the CCC = the WLA.

$$WLA_c = 5.0 \mu\text{g/L}$$

$$LTA_c = 5.0 \mu\text{g/L} (0.527) = 2.6 \mu\text{g/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{MDL} = 2.6 \mu\text{g/L} (3.11) = \mathbf{9.3 \mu\text{g/L}}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 3.0 \mu\text{g/L} (1.55) = \mathbf{4.7 \mu\text{g/L}}$$

$$[\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile}, n = 4]$$

- **Silver, Total Recoverable.** Protection of Aquatic Life Acute Criteria = 6.5 µg/L. and Hardness 150-174

$$\text{Conversion for CMC} = 6.5/0.850 = 7.6 \mu\text{g/L}$$

$$WLA=7.6 \text{ ug/L}$$

$$LTA_a = 7.6(0.321) = \mathbf{2.5 \mu\text{g/L}}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{MDL} = 2.5(3.11) = \mathbf{7.8 \mu\text{g/L}}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 2.5(1.55) = \mathbf{3.9 \mu\text{g/L}}$$

$$[\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile}, n = 4]$$

- **Thallium, Total Recoverable.** Human Health Protection and Fish Consumption (HHF) and therefore the protection of Aquatic Life = 6.3ug/L Chronic. The Chronic toxicity. There is no conversion factor from dissolved to Total Recoverable for Thallium.

$$WLA = 6.3 \text{ ug/L}$$

$$LTA_a = 6.3 \text{ mg/L} (0.527) = 3.3 \text{ ug/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{MDL} = 3.3 \text{ mg/L} (3.11) = \mathbf{10.3 \text{ ug/L}}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 3.3 \text{ mg/L} (1.55) = \mathbf{5.1 \text{ ug/L}}$$

$$[\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile}, n = 4]$$

- **Zinc, Total Recoverable.** Protection of Aquatic Life Acute Criteria = 165 µg/L.

$$\text{Conversion for CMC} = 165.0/0.978 = 168.7 \mu\text{g/L}$$

$$WLA=165 \text{ ug/L}$$

$$LTA_a = 168.7(0.321) = 54.2 \mu\text{g/L}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{MDL} = 54.2(3.11) = \mathbf{168.6 \mu\text{g/L}}$$

$$[\text{CV} = 0.6, 99^{\text{th}} \text{ Percentile}]$$

$$\text{AML} = 54.2(1.55) = \mathbf{84.0 \mu\text{g/L}}$$

$$[\text{CV} = 0.6, 95^{\text{th}} \text{ Percentile}, n = 4]$$

Part VI – Finding of Affordability

Pursuant to Section 644.145, RSMo., the Department is required to determine whether a permit or decision is affordable and makes a finding of affordability for certain permitting and enforcement decisions. This requirement applies to discharges from combined or separate sanitary sewer systems or publically-owned treatment works.

Not Applicable;

The Department is not required to determine findings of affordability because the facility is not a **combined or separate sanitary sewer system for a publically-owned treatment works**.

Part VII – Administrative Requirements

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

PERMIT SYNCHRONIZATION:

The Missouri Department of Natural Resources is transitioning from the traditional methods with which Missouri's water resources have been managed to a Watershed Based Management (WBM) approach. The WBM approach will manage watersheds on the eight-digit Hydrological Unit Code (HUC8) scale. As permitting and permit synchronization is a key aspect of successful implementation of a Watershed Management Plan (WMP), the same HUC8 groups that will move through the WBM cycle will have their permit expirations and issuances synchronized in the same fiscal year. The typical five-year term of the permit issuances aligns with the proposed five-year WBM cycle and the two processes will be intimately tied together.

The immediate goals of the permit synchronization include the following:

- The administrative and technical streamlining of Water Protection Program and Regional Office activities such as permitting, inspections, and water quality monitoring.
- Providing the basis for future watershed permitting.
- Beginning to further examine Missouri's water resources on a watershed basis.

This permit will expire on 2nd quarter of 2018 in order to meet the permit synchronization goals.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

- The Public Notice period for this operating permit was from March 29, 2013 to April 29, 2013 and no comments were received.

DATE OF FACT SHEET: OCTOBER 2, 2012

COMPLETED BY:

Thabit. H. Hamoud, P.E, EE III

Missouri Department of Natural Resources

Water Protection Section

7545 S. Lindbergh, Suite 210, St. Louis, Missouri 63125

(314) 416-2453

thabit.hamoud@dnr.mo.gov

**STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION**

Revised
October 1, 1980

**PART I - GENERAL CONDITIONS
SECTION A - MONITORING AND REPORTING**

1. Representative Sampling

- a. Samples and measurements taken as required herein shall be representative of the nature and volume, respectively, of the monitored discharge. All samples shall be taken at the outfall(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.
- b. Monitoring results shall be recorded and reported on forms provided by the Department, postmarked no later than the 28th day of the month following the completed reporting period. Signed copies of these, and all other reports required herein, shall be submitted to the respective Department Regional Office, the Regional Office address is indicated in the cover letter transmitting the permit.

2. Schedule of Compliance

No later than fourteen (14) calendar days following each date identified in the "Schedule of Compliance", the permittee shall submit to the respective Department Regional Office as required therein, either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirements, or if there are no more scheduled requirements, when such noncompliance will be corrected. The Regional Office address is indicated in the cover letter transmitting the permit.

3. Definitions

Definitions as set forth in the Missouri Clean Water Law and Missouri Clean Water Commission Definition Regulation 10 CSR 20-2.010 shall apply to terms used herein.

4. Test Procedures

Test procedures for the analysis of pollutant shall be in accordance with the Missouri Clean Water Commission Effluent Regulation 10 CSR 20-7015.

5. Recording of Results

- a. For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:
 - (i) the date, exact place, and time of sampling or measurements;
 - (ii) the individual(s) who performed the sampling or measurements;
 - (iii) the date(s) analyses were performed;
 - (iv) the individual(s) who performed the analyses;
 - (v) the analytical techniques or methods used; and
 - (vi) the results of such analyses.
- b. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or both.
- c. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monitoring Report Form. Such increased frequency shall also be indicated.

7. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recording for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

SECTION B - MANAGEMENT REQUIREMENTS

1. Change in Discharge

- a. All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant not authorized by this permit or any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.
- b. Any facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants shall be reported by submission of a new NPDES application at least sixty (60) days before each such change, or, if they will not violate the effluent limitations specified in the permit, by notice to the Department at least thirty (30) days before such changes.

2. Noncompliance Notification

- a. If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Department with the following information, in writing within five (5) days of becoming aware of such conditions:
 - (i) a description of the discharge and cause of noncompliance, and
 - (ii) the period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.
- b. Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally with 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided with five (5) days of the time the permittee becomes aware of the circumstances. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

3. Facilities Operation

Permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions. Operators or supervisors of operations at publicly owned or publicly regulated wastewater treatment facilities shall be certified in accordance with 10 CSR 209.020(2) and any other applicable law or regulation. Operators of other wastewater treatment facilities, water contaminant source or point sources, shall, upon request by the Department, demonstrate that wastewater treatment equipment and facilities are effectively operated and maintained by competent personnel.

4. Adverse Impact

The permittee shall take all necessary steps to minimize any adverse impact to waters of the state resulting from noncompliance with any effluent limitations specified in this permit or set forth in the Missouri Clean Water Law and Regulations (hereinafter the Law and Regulations), including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

- a. Any bypass or shut down of a wastewater treatment facility and tributary sewer system or any part of such a facility and sewer system that results in a violation of permit limits or conditions is prohibited except:
 - (i) where unavoidable to prevent loss of life, personal injury, or severe property damages; and
 - (ii) where unavoidable excessive storm drainage or runoff would catastrophically damage any facilities or processes necessary for compliance with the effluent limitations and conditions of this permit;
 - (iii) where maintenance is necessary to ensure efficient operation and alternative measures have been taken to maintain effluent quality during the period of maintenance.
 - b. The permittee shall notify the Department in writing of all bypasses or shut down that result in a violation of permit limits or conditions. This section does not excuse any person from liability, unless such relief is otherwise provided by the statute.
6. **Removed Substances**
Solids, sludges, filter backwash, or any other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutants from entering waters of the state unless permitted by the Law, and a permanent record of the date and time, volume and methods of removal and disposal of such substances shall be maintained by the permittee.
 7. **Power Failures**
In order to maintain compliance with the effluent limitations and other provisions of this permit, the permittee shall either:
 - a. in accordance with the "Schedule of Compliance", provide an alternative power source sufficient to operate the wastewater control facilities; or,
 - b. if such alternative power source is not in existence, and no date for its implementation appears in the Compliance Schedule, halt or otherwise control production and all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.
 8. **Right of Entry**
For the purpose of inspecting, monitoring, or sampling the point source, water contaminant source, or wastewater treatment facility for compliance with the Clean Water Law and these regulations, authorized representatives of the Department, shall be allowed by the permittee, upon presentation of credentials and at reasonable times;
 - a. to enter upon permittee's premises in which a point source, water contaminant source, or wastewater treatment facility is located or in which any records are required to be kept under terms and conditions of the permit;
 - b. to have access to, or copy, any records required to be kept under terms and conditions of the permit;
 - c. to inspect any monitoring equipment or method required in the permit;
 - d. to inspect any collection, treatment, or discharge facility covered under the permit; and
 - e. to sample any wastewater at any point in the collection system or treatment process.
 9. **Permits Transferable**
 - a. Subject to Section (3) of 10 CSR 20-6.010 an operating permit may be transferred upon submission to the Department of an application to transfer signed by a new owner. Until such time as the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
 - b. The Department, within thirty (30) days of receipt of the application shall notify the new permittee of its intent to revoke and reissue or transfer the permit.
 10. **Availability of Reports**
Except for data determined to be confidential under Section 308 of the Act, and the Law and Missouri Clean Water Commission Regulation for Public Participation, Hearings and Notice to Governmental Agencies 10 CSR 20-6.020, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. As required by statute, effluent data shall not be considered confidential. Knowingly making any false statement on any such report shall be subject to the imposition of criminal penalties as provided in Section 204.076 of the Law.
 - a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - (i) violation of any terms or conditions of this permit or the Law;
 - (ii) having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
 - (iii) a change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge, or
 - (iv) any reason set forth in the Law and Regulations.
 - b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
12. **Permit Modification - Less Stringent Requirements**
If any permit provisions are based on legal requirements which are lessened or removed, and should no other basis exist for such permit provisions, the permit shall be modified after notice and opportunity for a hearing.
 13. **Civil and Criminal Liability**
Except as authorized by statute and provided in permit conditions on "Bypassing" (Standard Condition B-5) and "Power Failures" (Standard Condition B-7) nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.
 14. **Oil and Hazardous Substance Liability**
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act, and the Law and Regulations. Oil and hazardous materials discharges must be reported in compliance with the requirements of the Federal Clean Water Act.
 15. **State Laws**
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state statute or regulations.
 16. **Property Rights**
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of or violation of federal, state or local laws or regulations.
 17. **Duty to Reapply**
If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit 180 days prior to expiration of this permit.
 18. **Toxic Pollutants**
If a toxic effluent standard, prohibition, or schedule of compliance is established, under Section 307(a) of the Federal Clean Water Act for a toxic pollutant in the discharge of permittee's facility and such standard is more stringent than the limitations in the permit, then the more stringent standard, prohibition, or schedule shall be incorporated into the permit as one of its conditions, upon notice to the permittee.
 19. **Signatory Requirement**
All reports, or information submitted to the Director shall be signed (see 40 CFR-122.6).
 20. **Rights Not Affected**
Nothing in this permit shall affect the permittee's right to appeal or seek a variance from applicable laws or regulations as allowed by law.
 21. **Severability**
The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

AP3719



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH
FORM A - APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT
UNDER MISSOURI CLEAN WATER LAW

| FOR AGENCY USE ONLY | |
|---------------------|-----------------|
| CHECK NUMBER | No Fee Required |
| DATE RECEIVED | 2/16/12 |
| FEE SUBMITTED | 0 |

RECEIVED

JAN 25 2011

(K)

Note PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM.

1. This application is for:

- An operating permit and antidegradation review public notice
- A construction permit following an appropriate operating permit and antidegradation review public notice
- A construction permit and concurrent operating permit and antidegradation review public notice
- A construction permit (submitted before Aug. 30, 2008 or antidegradation review is not required)
- An operating permit for a new or unpermitted facility Construction Permit # _____
- An operating permit renewal: permit # MO- 0113000 Expiration Date June 1, 2011
- An operating permit modification: permit # MO- _____ Reason: _____

1.1 Is the appropriate fee included with the application? (See instructions for appropriate fee) YES NO

2. FACILITY

| | | | |
|---------------------------------|---------|--------------------------|----------|
| NAME | | TELEPHONE WITH AREA CODE | |
| Veolia Oak Ridge Landfill, Inc. | | (636) 225-7220 | |
| ADDRESS (PHYSICAL) | | FAX (636) 225-6178 | |
| 1741 Sulphur Spring Road | | STATE | ZIP CODE |
| | | MO | 63021 |
| CITY | Ballwin | | |

3. OWNER

| | | | | | |
|---------------------------------|---------|--------------------|--|--------------------------|--|
| NAME | | E-MAIL ADDRESS | | TELEPHONE WITH AREA CODE | |
| Veolia Oak Ridge Landfill, Inc. | | | | (636) 225-7220 | |
| ADDRESS (MAILING) | | FAX (636) 225-6178 | | STATE | |
| 1741 Sulphur Spring Road | | | | MO | |
| | | | | ZIP CODE | |
| | | | | 63021 | |
| CITY | Ballwin | | | | |

3.1 Request review of draft permit prior to public notice? YES NO

4. CONTINUING AUTHORITY

| | | | |
|---------------------------------|---------|--------------------------|----------|
| NAME | | TELEPHONE WITH AREA CODE | |
| Veolia Oak Ridge Landfill, Inc. | | (636) 225-7220 | |
| ADDRESS (MAILING) | | FAX (636) 225-6178 | |
| 1741 Sulphur Spring Road | | STATE | ZIP CODE |
| | | MO | 63021 |
| CITY | Ballwin | | |

5. OPERATOR

| | | | | | |
|---------------------------------|---------|--------------------|--|--------------------------|--|
| NAME | | CERTIFICATE NUMBER | | TELEPHONE WITH AREA CODE | |
| Veolia Oak Ridge Landfill, Inc. | | N/A | | (636) 225-7220 | |
| ADDRESS (MAILING) | | FAX (636) 225-6178 | | STATE | |
| 1741 Sulphur Spring Road | | | | MO | |
| | | | | ZIP CODE | |
| | | | | 63021 | |
| CITY | Ballwin | | | | |

6. FACILITY CONTACT

| | | | | | |
|-----------------|--|-----------------|--|--------------------------|--|
| NAME | | TITLE | | TELEPHONE WITH AREA CODE | |
| Randy Tourville | | General Manager | | (636) 225-7220 | |
| | | | | FAX (636) 225-6178 | |

7. ADDITIONAL FACILITY INFORMATION

7.1 Legal Description of Outfalls. (Attach additional sheets if necessary.)

001 _____ 1/4 _____ 1/4 _____ Sec _____ T _____ R _____ _____ County
 UTM Coordinates Easting (X): _____ Northing (Y): _____
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

002 NE 1/4 NE 1/4 Sec 14 T 44N R 4E St. Louis County
 UTM Coordinates Easting (X): _____ Northing (Y): _____

003 SE 1/4 NE 1/4 Sec 14 T 44N R 4E St. Louis County
 UTM Coordinates Easting (X): _____ Northing (Y): _____

005 004 SW 1/4 NW 1/4 Sec 13 T 44N R 4E St. Louis County
 UTM Coordinates Easting (X): _____ Northing (Y): _____

7.2 Primary Standard Industrial Classification (SIC) and Facility North American Industrial Classification System (NAICS) Codes.

001 - SIC _____ and NAICS _____ 002 - SIC 4953 and NAICS 562212
 003 - SIC 4953 and NAICS 562212 005 004 - SIC 4953 and NAICS 562212

RECEIVED
FEB 10 2011
 MO DEPT NATURAL RESOURCES
 ST. LOUIS REGIONAL OFFICE

8. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION
 (Complete all forms that are applicable.)

A. Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? YES NO
 If yes, complete Form C (unless storm water only, then complete U.S. Environmental Protection Agency Form 2F per Item C below).

B. Is your facility considered a "Primary Industry" under EPA guidelines: YES NO
 If yes, complete Forms C and D.

C. Is application for storm water discharges only? YES NO
 If yes, complete EPA Form 2F.

D. Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.

E. Is wastewater land applied? If yes, complete Form I. YES NO

F. Is sludge, biosolids, ash or residuals generated, treated, stored or land applied? YES NO
 If yes, complete Form R.

9. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See instructions.
 (PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE).

NAME
 1. Superior Oak Ridge Landfill, Inc.

| ADDRESS | CITY | STATE | ZIP CODE |
|--------------------------|---------|-------|----------|
| 1648 Sulphur Spring Road | Ballwin | MO | 63021 |

10. I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law to the Missouri Clean Water Commission.

| | |
|---|-------------------------------|
| NAME AND OFFICIAL TITLE (TYPE OR PRINT) <i>Randy Tomville, General Manager</i> | TELEPHONE WITH AREA CODE |
| SIGNATURE <i>[Signature]</i> | DATE SIGNED <i>1/21/11</i> |

MO 780-1479 (01-09)

BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.
 Submittal of an incomplete application may result in the application being returned.

HAVE YOU INCLUDED:

- Appropriate Fees?
- Map at 1" = 2000' scale?
- Signature?
- Form C, if applicable?
- Form D, if applicable?
- Form 2F, if applicable?
- Form I (Irrigation), if applicable?
- Form R (Sludge), if applicable?

| | | | |
|---|---|---|--|
| 8. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION (Complete all forms that are applicable.) | | | |
| A. | Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? If yes, complete Form C (unless storm water only, then complete U.S. Environmental Protection Agency Form 2F per Item C below). | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| B. | Is your facility considered a "Primary Industry" under EPA guidelines? If yes, complete Forms C and D. | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| C. | Is application for storm water discharges only? If yes, complete EPA Form 2F. | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| D. | Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale. | | |
| E. | Is wastewater land applied? If yes, complete Form I. | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| F. | Is sludge, biosolids, ash or residuals generated, treated, stored or land applied? If yes, complete Form R. | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| 9. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See Instructions. (PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE). | | | |
| NAME 2. Arbor Valley Homeowners Association | | | |
| ADDRESS 1328 Red Oak Plantation Drive | | CITY Ballwin | STATE ZIP CODE MO 63021 |
| 10. I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law to the Missouri Clean Water Commission. | | | |
| NAME AND OFFICIAL TITLE (TYPE OR PRINT) <i>Randy Towne, II General Manager</i> | | TELEPHONE WITH AREA CODE | |
| SIGNATURE <i>[Signature]</i> | | DATE SIGNED <i>1/21/11</i> | |

MO 780-1479 (01-09)

BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.

Submittal of an incomplete application may result in the application being returned.

HAVE YOU INCLUDED:

- Appropriate Fees?
- Map at 1" = 2000' scale?
- Signature?
- Form C, if applicable?
- Form D, if applicable?
- Form 2F, if applicable?
- Form I (Irrigation), if applicable?
- Form R (Sludge), if applicable?

| | | | |
|---|---|---|--|
| 8. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION (Complete all forms that are applicable.) | | | |
| A. | Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? If yes, complete Form C (unless storm water only, then complete U.S. Environmental Protection Agency Form 2F per Item C below). | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| B. | Is your facility considered a "Primary Industry" under EPA guidelines: If yes, complete Forms C and D. | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| C. | Is application for storm water discharges only? If yes, complete EPA Form 2F. | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| D. | Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale. | | |
| E. | Is wastewater land applied? If yes, complete Form I. | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| F. | Is sludge, biosolids, ash or residuals generated, treated, stored or land applied? If yes, complete Form R. | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| 9. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See Instructions. (PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE). | | | |
| NAME | | | |
| 3. Meramec Bluffs Senior Living Community | | | |
| ADDRESS | | CITY | STATE ZIP CODE |
| 1 Meramec Bluffs Dr | | Ballwin | MO 63021 |
| 10. I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law to the Missouri Clean Water Commission. | | | |
| NAME AND OFFICIAL TITLE (TYPE OR PRINT) | | | TELEPHONE WITH AREA CODE |
| <i>Randy Tomalla General Manager</i> | | | |
| SIGNATURE | | | DATE SIGNED |
| <i>[Signature]</i> | | | 1/20/11 |

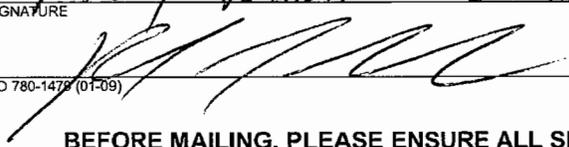
MO 780-1479 (01-09)

BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.

Submittal of an incomplete application may result in the application being returned.

HAVE YOU INCLUDED:

- Appropriate Fees?
- Map at 1" = 2000' scale?
- Signature?
- Form C, if applicable?
- Form D, if applicable?
- Form 2F, if applicable?
- Form I (Irrigation), if applicable?
- Form R (Sludge), if applicable?

| | | | |
|---|---|---|--|
| 8. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION (Complete all forms that are applicable.) | | | |
| A. | Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? If yes, complete Form C (unless storm water only, then complete U.S. Environmental Protection Agency Form 2F per Item C below). | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| B. | Is your facility considered a "Primary Industry" under EPA guidelines: If yes, complete Forms C and D. | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| C. | Is application for storm water discharges only? If yes, complete EPA Form 2F. | YES <input checked="" type="checkbox"/> | NO <input type="checkbox"/> |
| D. | Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale. | | |
| E. | Is wastewater land applied? If yes, complete Form I. | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| F. | Is sludge, biosolids, ash or residuals generated, treated, stored or land applied? If yes, complete Form R. | YES <input type="checkbox"/> | NO <input checked="" type="checkbox"/> |
| 9. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See Instructions. (PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE). | | | |
| NAME | | | |
| 4. Centerre TrustCo of St. Louis Trustee Nations Bank Moffitt | | | |
| ADDRESS | | CITY | STATE ZIP CODE |
| 699 West Outer Road | | Valley Park | MO 63088 |
| 10. I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law to the Missouri Clean Water Commission. | | | |
| NAME AND OFFICIAL TITLE (TYPE OR PRINT) | | TELEPHONE WITH AREA CODE | |
| <i>Randy Towne, Council Manager</i> | | | |
| SIGNATURE | | DATE SIGNED | |
|  | | 1/21/11 | |

MO 780-1478 (01-09)

BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.

Submittal of an incomplete application may result in the application being returned.

HAVE YOU INCLUDED:

- Appropriate Fees?
- Map at 1" = 2000' scale?
- Signature?
- Form C, if applicable?
- Form D, if applicable?
- Form 2F, if applicable?
- Form I (Irrigation), if applicable?
- Form R (Sludge), if applicable?

Please print or type in the unshaded areas only.

FORM
2F
NPDES



U.S. Environmental Protection Agency
Washington, DC 20460

**Application for Permit to Discharge Storm Water
Discharges Associated with Industrial Activity**

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

| A. Outfall Number (list) | B. Latitude | | C. Longitude | | | D. Receiving Water (name) |
|-----------------------------|-------------|-------------|--------------|-------|-------|--|
| | | | | | | |
| #002 | 38.00 | 33.00 36.60 | 90.00 | 31.00 | 55.96 | Wet Weather Tributary to Fishpot Creek |
| #003 | 38.00 | 32.00 55.84 | 90.00 | 31.00 | 51.20 | Meramec River |
| #005 | 38.00 | 33.00 26.68 | 90.00 | 31.00 | 34.66 | Wet Weather Tributary to Fishpot Creek |
| | | | | | | |
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II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

| 1. Identification of Conditions, Agreements, Etc. | 2. Affected Outfalls | | 3. Brief Description of Project | 4. Final Compliance Date | |
|---|----------------------|---------------------|---------------------------------|--------------------------|----------|
| | number | source of discharge | | a. req. | b. proj. |
| NA | NA | NA | NA | | |
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B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

| Outfall Number | Area of Impervious Surface (provide units) | Total Area Drained (provide units) | Outfall Number | Area of Impervious Surface (provide units) | Total Area Drained (provide units) |
|----------------|--|------------------------------------|----------------|--|------------------------------------|
| 002 | 0.10 acre | 49.00 acres | | | |
| 003 | 0.10 acre | 74.68 acres | | | |
| 005 | 0.10 acre | 52.59 acres | | | |

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

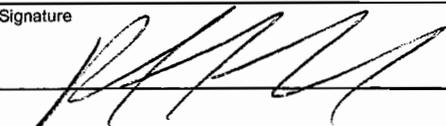
Solid waste, miscellaneous fuel tanks, and operating equipment

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

| Outfall Number | Treatment | List Codes from Table 2F-1 |
|----------------|--------------------------------|----------------------------|
| 002 | Sedimentation - Settling basin | 1-U |
| 003 | Sedimentation - Settling basin | 1-U |
| 005 | Sedimentation - Settling basin | 1-U |

V. Nonstormwater Discharges

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

| Name and Official Title (type or print) | Signature | Date Signed |
|---|--|-------------|
| Randy Townville GM |  | 1/21/14 |

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Sample summary attached

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

| Outfall Number | Area of Impervious Surface (provide units) | Total Area Drained (provide units) | Outfall Number | Area of impervious Surface (provide units) | Total Area Drained (provide units) |
|----------------|--|------------------------------------|----------------|--|------------------------------------|
| 002 | 0.10 acre | 49.00 acres | | | |
| 003 | 0.10 acre | 74.68 acres | | | |
| 005 | 0.10 acre | 52.59 acres | | | |

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Solid waste, miscellaneous fuel tanks, and operating equipment

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

| Outfall Number | Treatment | List Codes from Table 2F-1 |
|----------------|--------------------------------|----------------------------|
| 002 | Sedimentation - Settling basin | 1-U |
| 003 | Sedimentation - Settling basin | 1-U |
| 005 | Sedimentation - Settling basin | 1-U |

V. Nonstormwater Discharges

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

| Name and Official Title (type or print) | Signature | Date Signed |
|---|-----------|-------------|
| | | |

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Sample summary attached

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.
Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

Yes (list all such pollutants below)

No (go to Section IX)

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

Yes (list all such pollutants below)

No (go to Section IX)

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

Yes (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

No (go to Section X)

| A. Name | B. Address | C. Area Code & Phone No. | D. Pollutants Analyzed |
|----------------------------------|--|--------------------------|---|
| Siemens Water Technologies Corp. | 301 W. Military Road Rothschild, WI 54474 | 800-338-7226 | See attached summary |
| Teklab Inc. | 5445 Horseshoe Lake Road Collinsville, IL 62234 | 618-344-1004 | BOD, TSS, and Settleable Solids (if needed) |

X. Certification

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

| | |
|---|----------------------------------|
| A. Name & Official Title (Type Or Print) <i>Randy Turnelle General Manager</i> | B. Area Code and Phone No. |
| C. Signature <i>[Signature]</i> | D. Date Signed <i>1/20/11</i> |

SUMMARY OF SURFACE WATER SAMPLING DATA

VEOLIA OAK RIDGE LANDFILL

SUMMARY OF QUARTERLY SURFACE WATER SAMPLING
OUTFALL #002
VEOLIA OAK RIDGE LANDFILL

| Parameter | Concentration | | |
|-------------------------------|---------------|---------|---------|
| | Minimum | Average | Maximum |
| Flow (MGD) | 0.0014 | 0.0029 | 0.0072 |
| Rainfall (in.) | 0.29 | 0.77 | 1.72 |
| BTEX (mg/l) | <0.0013 | <0.0013 | <0.0013 |
| BOD (mg/l) | <2.0 | 8.17 | 8.17 |
| COD (mg/l) | 40.1 | 61.75 | 82.4 |
| TSS (mg/l) | 17.2 | 50.25 | 24.8 |
| Settleable Solids (ml/l/hr) | <0.1 | 0.20 | 0.20 |
| TDS (mg/l) | 250 | 613.00 | 778 |
| Conductivity (umhos/cm) | 397 | 1000.50 | 1310 |
| Chloride Plus Sulfates (mg/l) | 58.3 | 169.275 | 218.5 |
| Iron (mg/l) | 0.585 | 1.791 | 3.44 |
| pH (units) | 7.94 | 8.003 | 8.05 |

Notes:

Quarterly sampling based on data from first quarter 2009 through first quarter 2010.

Parameters reported are from Operating Permit MO-011300

When calculating average for concentrations below quantitation limit a value of zero was used.

ND = Not Detected

SUMMARY OF ANNUAL SURFACE WATER SAMPLING
OUTFALL #002
VEOLIA OAK RIDGE LANDFILL

| Parameter | Concentration (mg/L) ^a |
|-------------------------------|-----------------------------------|
| Calcium | 48.55 |
| Fluoride | 0.26 |
| Total Hardness | 196 |
| Barium, total recoverable | 0.1222 |
| Boron, total recoverable | 0.5625 |
| Cadmium, total recoverable | <0.0500 |
| Chromium, total recoverable | <0.0500 |
| Copper, total recoverable | <0.0500 |
| Sodium, total recoverable | 97.85 |
| Ammonia as N | 9.62 |
| Nitrate and Nitrite as N | 0.51 |
| Phosphorus, total recoverable | <0.400 |
| Mercury, total recoverable | 0.000092 |
| Arsenic, total recoverable | <0.050 |
| Lead, total recoverable | 0.028 |
| Selenium, total recoverable | <0.060 |
| Silver, total recoverable | <0.0250 |
| Manganese, total recoverable | 0.09175 |
| Magnesium, total recoverable | 18.11 |
| Zinc, total recoverable | <0.0500 |
| Antimony, total recoverable | <0.110 |
| Beryllium, total recoverable | 0.004 |
| Nickel, total recoverable | <0.0500 |
| Sulfate | 36.8 |
| Thallium, total recoverable | <0.050 |
| Total Organic Carbon | 12.98 |
| Vanadium, total recoverable | <0.050 |
| Oil and Grease | 2.4 |

Notes:

^a Average concentrations based on annual sampling during May 2008 and May 2009.

Parameters reported are from Operating Permit MO-0113000.

When calculating average for concentrations below quantitation limit a value of zero was used.

ND = Not Detected.

SUMMARY OF QUARTERLY SURFACE WATER SAMPLING
OUTFALL #003
VEOLIA OAK RIDGE LANDFILL

| Parameter | Concentration | | |
|-------------------------------|---------------|---------|---------|
| | Minimum | Average | Maximum |
| Flow (MGD) | 0.0014 | 0.0029 | 0.0017 |
| Rainfall (in.) | 0.4 | 1.033 | 1.38 |
| BTEX (mg/l) | <0.0013 | <0.0013 | <0.0013 |
| BOD (mg/l) | <5.0 | 4.1 | 6.0 |
| COD (mg/l) | 29.4 | 50.625 | 100 |
| TSS (mg/l) | 7 | 38.80 | 118 |
| Settleable Solids (ml/l/hr) | <0.1 | <0.125 | <0.2 |
| TDS (mg/l) | 593 | 748.50 | 867 |
| Conductivity | 987 | 1251.75 | 1550 |
| Chloride plus Sulfates (mg/l) | 236 | 292.50 | 354 |
| Iron (mg/l) | 0.313 | 1.844 | 5.98 |
| pH (units) | 7.56 | 7.725 | 7.98 |

Notes:

Quarterly sampling based on data from fourth quarter 2009 through third quarter 2010.

Parameters reported are from Operating Permit MO-011300

When calculating average for concentrations below quantitation limit a value of zero was used.

ND = Not Detected

SUMMARY OF ANNUAL SURFACE WATER SAMPLING
OUTFALL #003
VEOLIA OAK RIDGE LANDFILL

| Parameter | Concentration (mg/L) ^a |
|-------------------------------|-----------------------------------|
| Calcium | 75.3 |
| Fluoride | 0.73 |
| Total Hardness | 267 |
| Barium, total recoverable | 0.1145 |
| Boron, total recoverable | 0.141 |
| Cadmium, total recoverable | <0.0500 |
| Chromium, total recoverable | <0.0500 |
| Copper, total recoverable | <0.0500 |
| Sodium, total recoverable | 61.9 |
| Ammonia as N | <0.200 |
| Nitrate and Nitrite as N | 0.865 |
| Phosphorus, total recoverable | <0.400 |
| Mercury, total recoverable | <0.00023 |
| Arsenic, total recoverable | <0.050 |
| Lead, total recoverable | <0.053 |
| Selenium, total recoverable | <0.060 |
| Silver, total recoverable | <0.0250 |
| Manganese, total recoverable | 0.2725 |
| Magnesium, total recoverable | 19.2 |
| Zinc, total recoverable | 0.0756 |
| Antimony, total recoverable | <0.110 |
| Beryllium, total recoverable | <0.01 |
| Nickel, total recoverable | <0.0500 |
| Sulfate | 69.65 |
| Thallium, total recoverable | <0.050 |
| Total Organic Carbon | 7.435 |
| Vanadium, total recoverable | <0.050 |
| Oil and Grease | <4.81 |

Notes:

^aAverage concentrations based on annual sampling during May 2009 and May 2010.
Parameters reported are from Operating Permit MO-0113000.
When calculating average for concentrations below quantitation limit a value of zero was used.
ND = Not Detected.

SUMMARY OF QUARTERLY SURFACE WATER SAMPLING
OUTFALL #005
VEOLIA OAK RIDGE LANDFILL

| Parameter | Concentration | | |
|-------------------------------|---------------|---------|---------|
| | Minimum | Average | Maximum |
| Flow (MGD) | 0.0015 | 0.0023 | 0.0043 |
| Rainfall (in.) | 0.4 | 1.033 | 1.38 |
| BTEX (mg/l) | <0.0013 | <0.0013 | <0.0013 |
| BOD (mg/l) | <5 | 4.35 | 5.1 |
| COD (mg/l) | 35 | 44.425 | 52.6 |
| TSS (mg/l) | 5.2 | 21.85 | 63.2 |
| Settleable Solids (ml/l/hr) | <0.1 | <0.125 | <0.2 |
| TDS (mg/l) | 503 | 616.25 | 792 |
| Conductivity | 791 | 1044.75 | 1360 |
| Chloride plus Sulfates (mg/l) | 139.7 | 229.075 | 346.4 |
| Iron (mg/l) | 0.351 | 1.339 | 2.96 |
| pH (units) | 7.44 | 7.833 | 8.38 |

Notes:

Quarterly sampling based on data from fourth quarter 2009 through third quarter 2010.

Parameters reported are from Operating Permit MO-011300

When calculating average for concentrations below quantitation limit a value of zero was used.

ND = Not Detected

SUMMARY OF ANNUAL SURFACE WATER SAMPLING
OUTFALL #005
VEOLIA OAK RIDGE LANDFILL

| Parameter | Concentration (mg/L) ^a |
|-------------------------------|-----------------------------------|
| Calcium | 60.55 |
| Fluoride | <0.33 |
| Total Hardness | 220.5 |
| Barium, total recoverable | 0.11525 |
| Boron, total recoverable | 0.10625 |
| Cadmium, total recoverable | <0.0500 |
| Chromium, total recoverable | <0.0500 |
| Copper, total recoverable | <0.0500 |
| Sodium, total recoverable | 121 |
| Ammonia as N | <0.200 |
| Nitrate and Nitrite as N | <0.33 |
| Phosphorus, total recoverable | <0.400 |
| Mercury, total recoverable | <0.00023 |
| Arsenic, total recoverable | <0.050 |
| Lead, total recoverable | <0.053 |
| Selenium, total recoverable | <0.060 |
| Silver, total recoverable | <0.0250 |
| Manganese, total recoverable | 0.235 |
| Magnesium, total recoverable | 16.75 |
| Zinc, total recoverable | 0.182 |
| Antimony, total recoverable | <0.110 |
| Beryllium, total recoverable | <0.01 |
| Nickel, total recoverable | <0.0500 |
| Sulfate | 20.15 |
| Thallium, total recoverable | <0.050 |
| Total Organic Carbon | 10.695 |
| Vanadium, total recoverable | <0.050 |
| Oil and Grease | <4.82 |

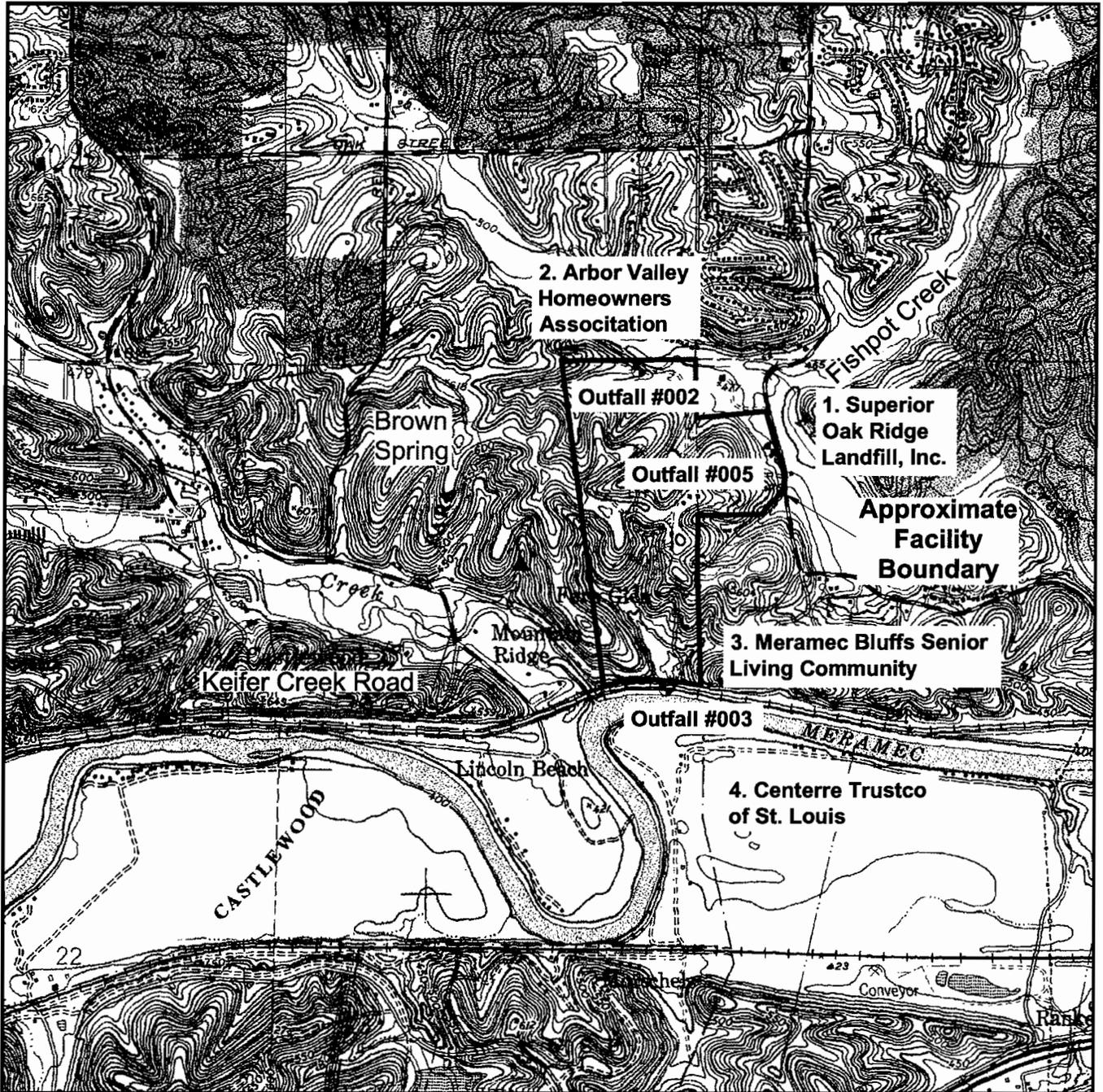
Notes:

^a Average concentrations based on annual sampling during May 2009 and May 2010.

Parameters reported are from Operating Permit MO-0113000.

When calculating average for concentrations below quantitation limit a value of zero was used.

ND = Not Detected.



NOTES

1. Plan adapted from 7.5 minute U.S.G.S. maps for Chesterfield, and Weldon Springs, Missouri Quadrangles last revised in 1994.

LEGEND

-  Outfall Location
-  Approximate Facility Boundary



| | | |
|----------------|----------------------|-----------------------|
| Drawn By: SLC | Ck'd By: <i>KJH</i> | App'vd By: <i>KJH</i> |
| Date: 12-07-10 | Date: <i>1/21/11</i> | Date: <i>1/21/11</i> |

GEOTECHNOLOGY INC.
 ENGINEERING AND ENVIRONMENTAL SERVICES
 ST. LOUIS • COLLINSVILLE • KANSAS CITY

Veolia Oak Ridge Landfill
 St. Louis County, Missouri

OUTFALL LOCATIONS

