

# Three Rivers Solid Waste Management Authority



## Request for Proposals Landfill Operations and Construction February 2018



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**Attachment A** – Landfill Operations Data

**Attachment B** – Leachate Recirculation Approval Letter from MDEQ

**Attachment C** – NPDES Permit Limits

**Attachment D** – Solidification Basin Approval Letter from MDEQ

**Attachment E** – Current Landfill Site Plan

**Attachment F** – Landfill Permit Documents

**Attachment G** – Fuel Adjustment Example

**Attachment H** – Proposal Summary Form

# LANDFILL OPERATIONS AND CONSTRUCTION RFP

## THREE RIVERS SOLID WASTE MANAGEMENT AUTHORITY

### I. Introduction

Sealed proposals for landfill operation and construction (the “RFP”) are hereby requested by the Three Rivers Solid Waste Management Authority (the “Authority”). Proposals will be received until 2:00 P.M. on the 22<sup>nd</sup> day of March, 2018, and should be addressed as follows:

Carl Cadden, Chairman  
Three Rivers Solid Waste Management Authority  
% Three Rivers Planning & Development District  
75 South Main Street  
Pontotoc, MS 38863  
Attention: Ronald E. Bell – RFP Administrator  
Phone: 662-489-2415 Fax: 662-489-6815 Email: [rbell@trpdd.com](mailto:rbell@trpdd.com)

A Pre-Proposal Conference and site visit to the Three Rivers Regional Landfill (the “Landfill”) will be conducted on March 8, 2018 at 10:00 A.M. beginning at the Three Rivers Planning and Development District’s office located at the address presented above and ending at the Landfill, located at 1904 Pontotoc Parkway West in Pontotoc, MS. Attendance is recommended.

Each entity submitting a proposal pursuant to this RFP shall be referred to herein as an “Offeror”. Offerors should submit seven (7) copies of their proposal in sealed envelopes marked “Proposal to Operate and Construct the Three Rivers Regional Landfill.”

Interested parties may obtain an electronic copy of the RFP at [landfillrfp@trpdd.com](mailto:landfillrfp@trpdd.com) or by contacting the RFP Administrator as listed above.

All proposals submitted in response to this RFP are “competitive sealed proposals” in accordance with Miss. Code Ann. Section 25-61-5 (2017). As such, production of competitive sealed proposals pursuant to the Mississippi Public Records Act of 1983 shall be withheld until up to seven (7) working days after the notice of intent to award is issued to the winning proposer.

See Attachment H of this RFP for the Proposal Summary Form.

### II. Background

The counties of Calhoun, Itawamba, Lafayette, Lee, Monroe, Pontotoc, and Union and the cities of Fulton, Oxford, Tupelo, Aberdeen, Amory, Pontotoc, and New Albany have formed and

incorporated a regional solid waste authority pursuant to Section 17-17-301, et. seq., Mississippi Code of 1972, as amended (the "Act") for the purpose of permitting, siting, constructing, equipping, and operating the Landfill.

The Authority purchased property for the landfill site, secured all permits, and operation began on April 1, 1995. The Authority secured permits for expansion of the facility in April, 1999, increasing the permitted disposal area to 206.90 acres. The permits for the Landfill included in Attachment F to this RFP include a Solid Waste Permit (SW0580010427), a Leachate Pretreatment Permit (MSP090943), an NPDES Stormwater Permit (MSS048917), a Title V Operating Permit (2300-00042), and a Water Well Permit (MS-GW-14938). Approximately 75.40 acres of disposal area have been constructed and are in use at the time of this RFP. In addition, on January 19, 2018, the Authority approved Work Assignment #13 with Waste Connection of Mississippi Disposal Services, LLC ("Waste Connections") to construct Cell #5 which contains 5.70 acres with a potential waste volume of 1,145,810 cubic yards (using a cumulative site density of 0.80 tons per cubic yard with a 20% allowance for daily/intermediate cover that equates to 733,318 tons). Construction of Cell #5 is expected to be completed and ready for use by August, 2018 and should provide adequate landfill airspace for approximately three (3) years. The Authority also receives tires, white goods, and scrap metal at the Landfill that are collected periodically by designated vendors under contract with the Authority for recycling and disposal of said materials offsite.

And finally, in accordance with Miss. Code Sections 17-17-225 and 17-17-227, the Authority has adopted a Solid Waste Management Plan (SWMP) for its seven (7) counties (Calhoun, Itawamba, Lafayette, Lee, Monroe, Pontotoc and Union) and the municipalities contained therein. As of the issuance of this RFP, Version 9 of the SWMP dated January 2015 is the most up-to-date version available. Offerors shall be aware of the SWMP and may access it at <http://trpdd.com/downloads/CurrentSWMP.pdf>.

### **III. PURPOSE of the RFP**

At the time of this RFP, the Authority is under agreement with Waste Connections to manage the day-to-day operations of the Landfill. The aforementioned agreement with Waste Connections will expire on September 30, 2018. The Landfill has been and shall continue to be operated and constructed in compliance with the permits noted in Attachment F to this RFP, the laws of the State of Mississippi, the rules and regulations of the Mississippi

Department of Environmental Quality (the “MDEQ”) and Subtitle D of the Resource Recovery and Conservation Act (“RCRA”), the Clean Water Act, the Clean Air Act, and all other applicable local, state and federal regulations.

This RFP is to select an Offeror to operate and manage the Landfill and possibly to coordinate and manage other capital improvement projects associated with the Landfill through various Work Assignments authorized by the Authority. Some examples of Work Assignments that may be authorized by the Authority and completed by the Offeror during the term of the Agreement are landfill cell construction & closure, landfill access road relocation and construction, landfill gas collection system expansion and construction and landfill permitting. Throughout this RFP the term “Agreement” shall be the contract or agreement between the successful Offeror and the Authority resulting from this RFP and the selection process that follows it. The period of time for the Agreement will not exceed ten (10) years.

#### **IV. General Notice to Offerors**

##### **A. Proposal Evaluation**

All responsive proposals shall be evaluated by the Authority, its engineers and attorneys. A proposal is deemed responsive when it complies with all proposal submission requirements and the Offeror agrees to perform all services requested in this RFP. The Authority solely reserves the right to determine whether a proposal is responsive and to waive any technicalities or requirements contained therein. The Authority shall make all final decisions.

##### **B. Security for Performance**

A performance bond or other form of acceptable security in a sufficient amount will be required for the landfill operational services requested through this RFP. Additional bonds or other forms of acceptable security may be required for any capital improvement projects that are authorized by the Authority through any Work Assignments. The Offeror shall provide with his proposal a Consent of Surety or other acceptable form of assurance from the entity that will provide the performance bond(s) or other acceptable security. During the term of the Agreement, the value of the performance bond(s) or other form of security may be changed by the Authority if (a) the Offeror is not meeting the established performance criteria specified in this RFP, or (b) the Offeror has completed all construction activities and met all performance criteria specified in this RFP.



### C. Amendments

The Authority reserves the right to officially modify or cancel this RFP after its issuance. Such modifications shall be made only by written addendum, an acknowledgment of which must be submitted with the Offeror's proposal. If it is not practical for an Offeror to receive and acknowledge an addendum prior to the deadline for submission of a proposal, an Offeror may acknowledge acceptance of the conditions of the addendum via facsimile or email, if such acceptance is received by the RFP Administrator prior to the RFP response deadline identified in this RFP. The Authority reserves the right to determine if a facsimile or email acceptance, in lieu of a signed addendum, is acceptable.

### D. Questions by Offerors

Any questions about the contents of this RFP shall be addressed to the RFP Administrator in writing. If the Authority determines that questions and the answers thereto, are of a general nature, the Authority reserves the right to provide such questions and answers to all prospective Offerors. Written questions may be submitted to the RFP Administrator by facsimile or email.

### E. Waste Stream Volume

The waste stream history of the Landfill (calendar year 2007 through 2017) is included with this RFP in Attachment A to this RFP. A flow control ordinance adopted by every county and city within the Authority's region assures the disposal of substantial solid waste quantities at the Landfill. Members of the Authority have agreed to take all legal actions to ensure waste under their control is delivered to the Landfill for disposal.

If waste generated outside the Authority's Region can be delivered by Offeror for disposal at the Landfill to improve operating efficiency, these quantities should be clearly defined and included in the proposal. All waste received at the Landfill must be from within the approved service area of the Authority and shall not originate outside the State of Mississippi. The approved service area includes Alcorn, Attala, Benton, Calhoun, Carroll, Chickasaw, Coahoma, Desoto, Grenada, Holmes, Itawamba, Lafayette, Lee, Leflore, Lowndes, Marshall, Monroe, Montgomery, Panola, Pontotoc, Prentiss, Quitman, Tallahatchie, Tate, Tippah, Tishomingo, Tunica, Union, Winston and Yalobusha counties in Mississippi. Solid waste from areas with established flow control ordinances that forbid the transport of solid waste to other landfills shall not be accepted at the Landfill. *Note: Lowndes County has a flow control ordinance in place.*

F. Recycling and Waste Minimization

Notice is hereby given that the waste stream to the Landfill might include certain items that may be recycled. Each Offeror shall take this into consideration when preparing their response to this RFP.

G. Yard Waste and Rubbish

Yard waste and rubbish generated in the region may be disposed at individual city, county or private permitted Class I or Class II rubbish facilities or it may be disposed along with nonhazardous solid waste under this RFP. If a separate rubbish disposal area or rubbish transfer station is constructed at the Landfill in the future, operation of said area or station shall be negotiated with the successful Offeror at that time.

H. Special Waste (Industrial Solid Waste)

The disposal of special waste (industrial solid waste that is defined in accordance with Miss. Code R. 11-4:1.1(48) (2018) and is permitted to be landfilled but requires special handling and disposal) may be priced separately in accordance with Sections 2.5.2 through 2.5.5 of this RFP. Offeror shall submit a current rate schedule (all fees and charges) for special waste disposal services it proposes to offer to Authority landfill patrons if it is chose as the successful Offeror. The Authority may request that the Offeror(s) submit a copy of its special waste schedule (all fees and charges) as a part of the Offeror selection process.

I. Leachate

A history of the leachate produced at the Landfill (October 2008 through December 2017) is included in Attachment A to this RFP. The Authority makes no representation that the leachate volumes produced in the future will not exceed the volumes that have been experienced in the past. Leachate storage at the site consists of a 250,000 gallon storage tank owned by the Authority. The Authority is also in the process of designing and constructing a 25,000 gallon per day leachate evaporation facility that may be functional by Spring of 2019. The Offeror shall be responsible for providing all transportation costs to and from the designated wastewater disposal site and the cost of all analytical laboratory sampling/testing requirements of the NPDES pretreatment permit (see Attachment C and F to this RFP). Expenses associated with leachate management shall be cost shared in accordance with Section VIII (4.0) of this RFP.

The MDEQ approved leachate recirculation for the Landfill on April 17, 2003. A copy of the

approval letter from MDEQ can be viewed in Attachment B to this RFP. The Offeror may continue the practice of leachate recirculation as long as the procedure does not interfere with operational efficiency of any landfill gas collection system and any current or future uses of biogas generated and collected at the Landfill.

The Authority has an agreement with the City of Pontotoc and the City of Oxford under Leachate Pretreatment Permit MSP090943. The Authority has an agreement with the City of Pontotoc to accept leachate from the Landfill. The cost of treatment at the Pontotoc Wastewater Treatment Facilities was not established at the time of this RFP. The Authority also has an agreement with the City of Oxford to accept leachate from the Landfill. At the time of this RFP, the City of Oxford will accept leachate for treatment at a cost of \$0.06 per gallon. The Offeror shall be responsible for providing all transportation costs to and from said wastewater treatment facilities.

The NPDES pretreatment permits limits for the City of Pontotoc POTW and the City of Oxford POTW are presented in Attachment C to this RFP.

If the Three Rivers Industrial Park (proposed to be located upon property owned by the Authority that is situated east of Beulah Grove Road in Pontotoc County) is developed, sanitary sewer service may become available. The construction of a leachate pump station and associated force main to these sewers may be possible at that time. If the development of the aforementioned Industrial Park becomes a reality, the cost of these facilities and their use may be negotiated with the Offeror at that time.

J. Landfill Gas Collection System, Greenhouse Gases and Emission Credits

During the term of the Agreement, the Authority shall be responsible for the operation, maintenance and expansion of the landfill gas collection system including the candlestick flare, generator and proposed leachate evaporator. As such, the Authority may request the Offeror to assist in the expansion of the landfill gas collection system through a Work Assignment(s).

All greenhouse gases and associated emission credits shall remain the property of the Authority.

K. Governing Law

This RFP and all contracts and agreements arising from it shall be governed by the laws of the State of Mississippi. All non-resident Offerors shall include a copy of their State's Contractor Preference Law or shall include a statement that their State does not have a Contractor Preference Law.

L. Environmental Permits

The MDEQ has issued five (5) permits for the construction and operation of the Landfill (See Attachment F to this RFP). The aforementioned permits are; (1) Solid Waste Management Permit, Number SW0580010427; (2) Leachate Pretreatment Permit, Number MSP090943; (3) NPDES Stormwater Permit, Number MSS048917; (4) Title V Operating Permit, Number 2300-00042; (5) Water Well Permit, Number MS-GW-14938. Any contract executed in response to this RFP, while consistent with the specifications, terms and conditions expressed herein, shall be structured so that it shall not require a transfer of any of these permits under the regulations of MDEQ.

M. IRS Regulations

Any Agreement executed in response to this RFP must conform to Internal Revenue Service Regulations on management contracts to ensure the continued tax-exempt status of the Authority's bonded indebtedness.

N. Qualifications

The Authority reserves the right to reject all or any part of a proposal and waive any irregularities in any or all proposals. Upon review and evaluation by the Authority, the best proposal may not be the lowest in cost, even though cost is of paramount importance. If the Offeror proposes to bring additional volumes of solid waste committed to the Landfill from within the Authority's service area, the additional volume may be an important input in determining the best offer.

To fully evaluate the qualifications of each Offeror's proposal, the following information must be a part of the Offeror's submission:

1. Firm Experience and Description of Projects

The Offeror is required to submit a description of his/her firm and a description of

recent similar projects, including a list of clients for whom the same or similar work has been performed within the last ten (10) years. The name and contact information of a representative for each of the identified clients shall be included. Each Offeror must be able to demonstrate a minimum of five (5) years experience operating Subtitle D landfills while managing leachate, leachate recirculation, and landfill gas management systems located therein and constructing landfills. Offeror shall demonstrate the ability to construct landfills in a cost-effective manner by providing a description and landfill per-acre cost of one or more prior projects representative of the Offeror's construction capabilities.

## 2. Personnel

The Offeror is required to submit the names and qualifications for those members of the firm who will be directly involved with or responsible for the proposed project. Resumes of the proposed facility manager, environmental coordinator, key design engineer(s), special waste consultant and the regional manager shall be provided.

## 3. Financial Information

Each Offeror shall present financial statements for the past three (3) years in 10-K form for publicly held companies and audited financial statements for private corporations which shall be treated as confidential by the Authority. The Authority reserves the right to reject the proposal of any Offeror which the Authority determines may not have the financial capability to perform for the life of the Agreement. Any Offeror which is a subsidiary to another corporation shall provide certification from the ultimate parent corporation that the assets of the parent corporation shall be available to meet the obligations of the subsidiary Offeror.

## 4. Compliance History

The Offeror shall disclose history of compliance with federal, state and local environmental laws and regulations. Copies of all Notice of Violations (NOVs) or any associated fines, penalties, or settlements within the past five (5) years shall be disclosed in the Offeror's response to this RFP. NOVs shall be inclusive of Mississippi and other States that are subject to the rules and regulations of any EPA or OSHA regulations or individual state regulations.

In addition, the Authority reserves the right to utilize other evaluation factors as provided by law to evaluate the qualifications of each Offeror's proposal.

O. Additional Services

The Offeror shall provide a description of any services the Offeror proposes to provide that are in addition to those services specifically requested by the RFP.

P. Hold Harmless

The Offeror shall agree to indemnify and hold harmless the Authority and any of its member entities, agents or employees from any liability or damages caused or incurred because of any negligent or otherwise wrongful act or omission of the Offeror or of any person or entity acting for, on behalf, or at the direction of the Offeror, and the Offeror shall defend any claims alleging such liability or seeking damages from the Authority. The Offeror agrees to defend, protect and hold the Authority harmless from any claims and actions seeking damages arising from alleged patent or copyright infringements. Upon execution of an Agreement with the successful Offeror, the Agreement shall contain these "hold harmless" provisions in favor of the Authority with respect to the operation and construction of the Landfill.

Q. Late Proposals

No proposals shall be accepted after the deadline for submission of proposals, regardless of the reason. Any proposals which are delivered after the submission deadline shall be returned unopened to the Offeror.

R. Insurance

The Offeror shall indicate in the proposal its ability to provide the following insurance coverage:

Type of Insurance	Coverage	Limits
General Liability	General Aggregate Each Occurrence	\$10,000,000 \$ 2,500,000
Automobile Liability	Combined Single Limit	\$ 5,000,000
Excess Liability, Umbrella Form	Aggregate Each Occurrence	\$ 7,500,000 \$ 7,500,000
Workers' Compensation		Statutory Limits
Employers Liability	Each Accident	\$ 500,000
Environmental Liability	Each Event	\$10,000,000

Any Offeror that is self-insured shall so state and upon request, shall provide such information with respect to self insurance as may be specified by the Authority. The insurance coverage described above shall name as "Additional Insured" the Authority, its member entities,

Authority agents and employees of the Three Rivers Planning and Development District, Inc. with an endorsement acceptable to the Authority, providing coverage for any and all acts or omissions of whatever nature by the Offeror.

S. Equal Employment Opportunity

The Offeror must comply with all EEOC and labor requirements.

T. Alternate Proposals for Operation and Construction of the Landfill

The Offeror may submit alternate proposals for the operation and construction of the Landfill it believes will be in the best interest of the Authority. Any such alternate proposals must provide for the continued operation of the Three Rivers Regional Landfill and must detail any actions that will be required of the Authority. Any landfill operations or construction modifications that will require permit modifications (air, solid waste, stormwater, or leachate pretreatment) shall be fully disclosed in the alternate proposal. The cost of preparing any permit modifications resulting from such alternate proposals shall be the responsibility of the Offeror.

U. No Litigation

The Offeror shall not be in active litigation against the Authority or any of its member entities.

V. Coordination of Construction Activities with On-going Landfill Operations

During the term of the Agreement, all landfill construction activities shall be completed in such a manner as to not adversely impact day-to-day landfill operation activities.

W. Non-Assignment

Offeror shall not assign any of its rights or delegate any of its obligations under the Agreement resulting from this RFP without prior written consent of the Authority. Any change in control of the Offeror resulting from a sell, merger, share exchange, consolidation, and stock transfer or otherwise shall be deemed an assignment or transfer for purposes of the Agreement that requires prior written consent of the Authority. Any purported assignment or delegation in violation of this section shall

be null and void. No assignment or delegation shall relieve Offeror of any of its obligations hereunder unless the Authority releases Offeror of its obligation under the Agreement.

## **V. Scope of Services**

The Scope of Services shall be for operating and constructing the Landfill in accordance with the specifications included in this RFP and all applicable laws and regulations, the Landfill permits and Landfill Operating Plan (Attachment F to this RFP). Under this RFP, the Authority shall be responsible for the expansion, operation and maintenance of the landfill gas collection system to include the candlestick flare, generator and proposed leachate evaporator.

The Authority is requesting that all equipment be furnished by the Offeror. The Offeror shall furnish the list of equipment included with this RFP as a minimum, and such equipment shall be kept in good working condition. Equipment furnished by the Offeror is expected to be capable of performing the task for which it is intended. Equipment that is not capable of performing the task for which it is intended shall be replaced in a timely manner by the Offeror at no additional expense to the Authority. Equipment that breaks down frequently and causes delays for patrons of the Landfill shall not be tolerated and shall be replaced in a timely manner by the Offeror.

The Authority has two (2) scales and a scale house in place at the Landfill. The Offeror will be trained by the Authority in operating the existing scales and the on-site computer system used in the Authority's billing system. The Offeror shall be responsible for maintaining a safe environment inside the scale house for both the Authority's computer and video surveillance systems.

The Offeror's response to this RFP shall cover all phases of operation and construction of the Landfill including but not limited to:

- Day-to-day operation and management of the Landfill.
- Completion of landfill construction projects through Work Assignments.
- Site security other than the video surveillance system.
- Scales, scale house and radioactive monitoring equipment operation and maintenance.
- Programs to detect and exclude hazardous, liquid and other unacceptable or unauthorized waste material.
- Special waste acceptance program including but not limited to waste solidification.
- Maintenance of roads, buildings to be occupied and utilized by the Offeror, leachate



storage tank (and related facilities), fencing and gates and the Landfill site in general.

- Utility costs associated with operations assigned to the Offeror.
- Provision of a backup generator that is capable of providing continuous electrical service for scale and scale house operations.
- Environmental monitoring, testing, fees and reporting required by the permits, laws and regulations, including but not limited to groundwater, stormwater, and landfill gas monitoring (cost shared as per Section VIII (11.0) of this RFP). Authority shall be responsible for the environmental monitoring, testing and reporting associated with Tier II testing for the Title V Operating Permit (outside of cost sharing as per Section VIII (11.0) of this RFP).
- Preparation and maintenance of a Stormwater Pollution Prevention Plan (SWPPP) approved by MDEQ, along with all monthly and annual inspections, including any necessary corrective measures to address any deficiencies noted in the monthly and annual inspections.
- Preparation and maintenance of Spill Prevention Control and Countermeasures Plan (SPCC) approved by MDEQ, along with all monthly and annual inspections, including any necessary corrective measures to address any deficiencies noted in the monthly and annual inspections.
- Operation and maintenance of the landfill convenience center (including tire and white goods/metal recycling disposal) in a neat and orderly fashion.
- Preparation of monthly landfill reports and attending regular and special monthly Authority meetings.
- Removal of litter along Highway 278 (76) from Highway 15 to Rocky Ford Road (County Road 833) and on landfill property.
- Maintenance of landscaping, grass cutting, & beautification areas on the landfill property, landfill entrance and access road to Highway 278 (76).
- Maintaining insurance on all phases of the Landfill's operation.
- Supplying all personnel needed for the day to day operations of the Landfill including labor costs, benefits and training.
- Provision of all supplies and materials for the day to day operation of the Landfill including but not limited to road maintenance materials, alternate daily cover, seed, fertilizer, fuels, oils, lubricants, hand tools, etc.
- Management of the hauling and dumping of waste to maintain as small an active face as practical.
- Spreading and compacting of waste to an in-place density of at least 1,600 lbs. per cubic yard.
- Placement of daily and intermediate cover, including the use of soil cover and the use of synthetic or alternate daily cover as approved by MDEQ and directed by the Authority.

- Excavation of soil for daily and intermediate cover from the appropriate future construction areas as directed by the Authority.
- Provision of any materials, fuel and lubricants needed to maintain and operate landfill equipment.
- Provision of any materials, equipment, and labor necessary to operate and maintain the leachate collection and storage facilities.
- Provision of necessary labor and facilities to operate the leachate recirculation facility (not cost shared as per Section VIII (4.0) of this RFP) and transport leachate to permitted wastewater treatment facilities as needed (cost shared as per Section VIII (4.0) of this RFP).
- Provision for remediation of known releases from that portion of the Landfill filled by the Offeror during or any time after the period of the Agreement and provision of financial assurance requirements for such remediation.
- Maintenance of all signage associated with the landfill and convenience center operations.
- Additional monitoring and remediation required perpetually due to known releases, unacceptable environmental test results, or detection of ground water contaminants which trigger an assessment monitoring program during or anytime after the operating period (not cost shared as per Section VIII (11.0) of this RFP).

A detailed explanation shall be submitted by the Offeror providing information that addresses the following:

1. Itemization of those functions in which the Offeror shall need assistance from the Authority, if any.
2. Liability for financial assurance shall apply to the Authority for closure and post-closure care and to the Offeror for remediation due to known releases during the operation and construction of the Landfill under the term of the Agreement. A detailed description of each shall be included in said Agreement.
3. Explanation of the Offeror's insurance coverage as required by this RFP, identify the Offeror's insurance agent and carrier and provide the name of a representative of the Offeror's insurance carrier.
4. Proposed staffing levels and a listing of equipment to be provided by the Offeror.
5. A statement regarding past and/or pending violations of any federal or state environmental laws or regulations as well as a disclosure statement containing those items set forth in Section 17-17-503(1), Mississippi Code of 1972, as amended. If this provision applies, details of such violations shall be disclosed.
6. A discussion of how records will be kept, maintained and provided to verify the source, volume and type of solid waste material being disposed of as required by the laws of the State of Mississippi.
7. Any special conditions or feature of importance as determined by the Offeror submitting the proposal.
8. A statement that the Offeror and site personnel are familiar with the State and Federal nonhazardous solid waste laws, rules and regulations including the rules and regulations

of the MDEQ.

9. A full disclosure of any other activities proposed by the Offeror to be conducted on the landfill site that are not directly related to the day-to-day operation and construction of the Landfill. Any new facilities supporting other activities shall require prior approval of the Authority.

## **VI. Term of Services**

The Authority shall consider proposals for a term of service for ten (10) years. The Offeror shall submit proposals meeting all the specifications, terms and conditions herein for the term. It is anticipated that the successful Offeror of this RFP will begin operating and maintaining the Landfill not later than October 1, 2018.

## **VII. COMPENSATION**

The Authority shall pay the Offeror a per ton fee for waste disposed at the Landfill by the Offeror under the terms of the Agreement. All payments to the Offeror shall be on a monthly basis on or before the 20th day of each month for the previous month's operation of the facility.

In addition to the monthly disposal payment, there shall be calculations and payments on a monthly basis for fuel adjustments related to off-road #2 diesel fuel (due to the Offeror or the Authority). Compensation for said fuel adjustments shall be due and payable, after presentation of proper and accurate invoice (with back-up documentation), on or before the 20<sup>th</sup> day of each month following the month of actual purchases of off-road #2 diesel fuel by the Offeror. The monthly fuel adjustments shall be based on the factors and calculations as shown in Attachment G to this RFP, (key factors of the calculation being the base fuel price as negotiated between the Offeror and the Authority in the Agreement as well as the verified number of gallons utilized and documented by the Offeror each month).

In addition, the Offeror or Authority may request an annual Consumer Price Index (CPI) adjustment, (said adjustment to be based on the twelve (12) month period immediately prior to July 1<sup>st</sup> of each year during the term of the Agreement) in the operational fee portion (associated with the day-to-day operation of the Landfill) of the Agreement. Said CPI shall be for Urban Wage Earners – (Southeastern). A maximum annual adjustment of 90% of the CPI may be applied, with an annual 3% cap allowed for the CPI adjustment. CPI adjustments will not be made for other components of the monthly compensation. Offeror or Authority shall make said CPI adjustment request on or before July 1<sup>st</sup> of each calendar year. Said adjustments shall take effect on October 1<sup>st</sup> of each year during the term of the

Agreement (except 10/1/18).

During the term of the Agreement, the Offeror may petition the Authority for disposal rate adjustments on the basis of documented cost increases due to a change in federal and/or state regulations or laws that were not in effect, promulgated, advertised or otherwise anticipated by the solid waste industry at the time the Agreement is signed. The Authority will compensate the Offeror based on certain factors in accordance with the following formula:

$$\text{Monthly Payment} = (A) \times (\text{Previous Months Tonnage}) \pm B \pm C - D + E$$

Where:

A = Cost per ton of solid waste for the day-to-day operation of the Landfill including all utilities, maintenance, salaries, supplies, fuel, training, site improvements, leachate management, environmental protections, insurance, bonds, and other overhead related items. This item ("A") may be CPI-Southeastern adjusted at the request of the Offeror or Authority as described above.

B = Cost adjustment for off-road #2 diesel fuel based on factors and calculations as described above and shown in Attachment G of this RFP.

C = Cost adjustment for leachate management based on criteria identified in Section VIII (4.0) of this RFP. D = Cost adjustment for retainage withheld from the Offeror, if necessary, due to unsatisfactory compaction rates in accordance with Section VIII (3.2.3) of this RFP. E = Cost adjustment for environmental sampling based on criteria identified in Section VIII (11.0) of this RFP.

The Authority shall determine the disposal charge to be paid by all patrons using the Landfill and shall be responsible for collection, billing and payment of the one dollar (\$1.00) per ton fee due to the State of Mississippi.

The Offeror may impose a special waste (industrial solid waste as defined in accordance with Code Miss. R. 11-4:1.1(48) (2018)) fee upon patrons disposing of certain waste at the Landfill in accordance with Section 2.5.2 through 2.5.5 of this RFP for waste that requires special handling such as immediate burial, isolated disposal, crushing, mixing or the use of personal protection equipment. During the term of the Agreement, the Offeror may petition the Authority for adjustments to the special waste fees or surcharges on the basis of documented cost increases. The special waste patron shall be required to pay for all analytical testing, profiling and sampling costs of all special wastes.

The Authority is responsible for the payment of all host community benefits (Pontotoc County).

**VIII. TECHNICAL SPECIFICATIONS FOR LANDFILL OPERATION, MAINTENANCE AND CONSTRUCTION**

**1.0 General Requirements**

**1.1 Access to Facility**

Offeror shall not permit access to the facility by persons other than employees of the Offeror, Authority representatives and employees, or other approved persons. All visitors shall be required to sign in and out in the visitors log located and maintained by the Offeror at the scale house. During regular operating hours, only those persons having business related to the operation and construction of the Landfill shall be provided access without the prior approval of the Authority. The Authority shall provide a list of approved persons that shall be accorded access to the Landfill at any and all times of the day or night, twenty four hours a day, seven days a week. MDEQ officials, Environmental Protection Agency (EPA) officials, Occupational, Safety and Health Administration (OSHA) officials, or members of the Board of Commissioners of the Authority or authorized representatives of the Authority shall enter the facility at any reasonable time with proper identification. The Offeror shall provide security at the site at all times.

**1.2 Tours**

From time to time the Authority may provide tours of the Landfill to various groups. The Offeror shall facilitate said tours in such a way as to make available to the persons on said tour the ability to witness the normal daily landfill operations and provide reasonable and safe access to all landfill facilities.

**1.3 Monthly, Semi-annual and Annual Reporting**

The Offeror agrees to provide landfill status reports as part of the Agreement. Report content, reporting frequencies, and other requirements are itemized and described in detail in Table A immediately below. The Authority reserves the right to alter report format and content as necessary to comply with any arising problems or changes in regulatory reporting requirements.

**Table A – Three Rivers Landfill Reporting Requirements**

Description	Monthly	Semi-Annual	Annual
Tonnage of solid waste received (monthly and year to date).	√		√
Comparison of tonnage from previous year (monthly and year to date).	√		√
Leachate quantities and characteristics including quantities transported to off-site wastewater treatment facilities, quantities re-circulated to the Landfill, and quantities evaporated at on-site evaporator facility (provided by the Authority). Leachate volumes produced by each leachate riser shall be reported.	√		√
Summary of special waste receipts and tonnage.	√		√
Tonnage of solid waste disposed at the Landfill by each commercial hauler and host county.			√
Construction progress report and construction photographs.	√		
Copies of the Stormwater Pollution Prevention Plan. (SWPPP) monthly or annual checklist.	√		√
Distribution and total number of vehicles (percent distribution of rear load vehicles, front load vehicles, roll off trucks, transfer trucks, and small trucks) that use the Landfill. Typical gross weights and tare weights of each class of vehicle shall be provided.			√
Semi-Annual density calculations that include compaction density over the past 6 months, compaction density for the past 2 years and the cumulative compaction density since the beginning of the Agreement.		√	√
Scale Certification Report.		√	
Radioactive Waste Monitor Certification.	√		
A schedule of all site and facility maintenance activities for the upcoming fiscal year.			√
Summary of all training and professional development classes attended by landfill employees.			√
Special Waste Annual Report.			√

Equipment Failure Report.	√		
Copies of the Spill Prevention Control and Countermeasures Plan (SPCC) monthly and annual checklist.	√		√
Report listing compliance actions required by the landfill permits, sampling, EPA and OSHA.	√		√
Certification by the landfill operator that all information contained in landfill report is true and accurate.	√	√	√

**2.0 Waste Receipt**

Upon entering the Landfill, all vehicles transporting waste shall be weighed at the scale house and a corresponding weight ticket shall be furnished to the transporter. No vehicle transporting waste shall be permitted to bypass the scale house; a weight ticket shall be required prior to entry to the Landfill. Some of the waste arriving at the Landfill may first report to one of the three (3) located at various sites within the Authority's region.

No special waste shall be deposited at any of the transfer stations described immediately above. All special waste shall be hauled directly to the Landfill on approved transport vehicles.

The wastes which are to be disposed of under the terms of the Agreement are to include typical municipal wastes from residential, commercial, and industrial waste generators.

**2.1 Days/Hours of Operation**

Days of operation of the Landfill shall be Monday through Saturday. The Landfill shall be closed on Sunday unless an emergency situation is declared by the Chairman of the Authority or his authorized representative working in cooperation with the Offeror. No waste shall be delivered to the site on the designated holidays listed as follows: New Year's Day, Independence Day, Thanksgiving Day, and Christmas Day. Saturday operations may be suspended at the option of the Authority or its authorized representative working in cooperation with the Offeror.

The Landfill (including the landfill convenience center) shall operate between the hours of 7:00 A.M. and 5:00 P.M. on weekdays and between 7:00 A.M. and 12:00 P.M. on Saturdays. On any Saturday following a holiday when the Landfill is closed, the site may remain open, as determined jointly by the Offeror and the Authority, until 5:00 P.M. if necessary to accommodate waste deliveries. Operating hours may be adjusted as

requested by the Offeror with prior approval of the Authority or its authorized representative. Offeror personnel shall be on duty during all Landfill operating hours. These hours shall not limit the days and times during which landfill construction activities may take place.

## 2.2 Scale House

Offeror shall have landfill scales and personnel certified as required by state laws and regulations. All costs for this certification shall be the Offeror's responsibility. Scales shall be certified two (2) times per year, at a minimum. Any scale certification by the State of Mississippi may count as one of the required certifications described above.

The Offeror shall be compensated based upon the weights as determined by the scales located at the Landfill. In the event that one of the scales becomes inoperable, the Offeror shall temporarily route all incoming and outgoing vehicles through the remaining scale, pending repair of the inoperable scale.

In the event that both scales are inoperable, all vehicles shall be weighed prior to leaving the transfer stations, where applicable, and said weights shall be used to determine compensation and documentation for billing purposes. If none of the scales at the Landfill or transfer stations are operable, volumes and average weights based upon previous historical records of the vehicles shall be used to estimate tonnages to determine compensation for billing purposes. Should the Offeror decide to weigh all vehicles prior to said vehicles leaving the transfer station, and in the event of any dispute over differences in net weights between transfer station scales and landfill scales, the Authority shall make payment upon the weight it deems to be most correct until the dispute is reconciled. Any claims for differences must be filed in writing within sixty (60) calendar days of said occurrence or the Authority's calculations shall be deemed final and binding between the parties.

## 2.3 Scale House Computer System/Scale Ticket

The scale house computer system (computer, printer and software) utilized by the Offeror in operation of the scale house will be provided by the Authority under this RFP. The Offeror shall be responsible for providing all supplies necessary to print scale tickets. The Offeror shall provide a safe environment for the scale house computer system inside the scale house. A scale ticket shall be generated for each transport equipment/vehicle with a minimum of the following information:

Authority Seal/Logo

Tipping Fee Dollar Amount



Customer Name	Truck No.
Trailer No.	Type of Waste
Arrival Time	Source of Waste
Departure Time	Gross (lbs)
	Tare (lbs)
Unique Sequential No.	Net (lbs)

Daily summary reports shall be generated showing the total net tonnages for the day, the total for each source, and the total for each type of waste.

#### 2.4 Waste Screening

The Offeror shall provide the necessary personnel and equipment to monitor incoming waste according to the Landfill's Solid Waste Permit. In addition, random testing of waste loads shall be performed in accordance with said permit requirements. Notwithstanding the above, a minimum of one (1) load per day shall be randomly selected for inspection of the waste contents to verify that no prohibited waste (or material) is contained therein. The Offeror shall oversee the unloading of all trucks, including: (1) observing all trucks for evidence of hazardous waste, such as leaking fluids, barrels or labeled containers; (2) observing the contents of the trucks for unauthorized or prohibited waste or materials as they are unloading. Any waste found to contain any materials not acceptable under current federal, state, and/or local regulations or not allowable under the Landfill's Solid Waste Permit shall be rejected and removed from the Landfill.

If hazardous waste is found prior to landfilling, the Offeror shall promptly arrange for removal of said waste from the Landfill and clean up all affected areas of the site. Offeror shall collect reimbursement for the cleanup from haulers, with assistance from the Authority. A current sign indicating the rules and regulations for acceptable solid waste shall be provided by the Offeror at the Landfill entrance.

If the Offeror, due to its failure to comply with the waste screening requirements, accepts for disposal and landfills unauthorized waste (or material), it shall be the Offeror's responsibility to arrange and pay for the proper disposal of said waste. Additionally, the Offeror shall pay for any associated cleanup costs including any fines, penalties, and other cost incurred by the Authority including engineering and legal fees. Offeror shall collect reimbursement for the cleanup from hauler(s).

The Offeror shall also use every commercially reasonable means possible to divert materials such as white goods, scrap metals, and tires to the convenience center at the

Landfill. The following unauthorized waste (or materials) are not to be accepted or disposed of in the Landfill:

Agricultural Pesticides	Steel Cable
Regulated Hazardous Waste	Toxic Waste
Junk Vehicles	Whole Tires
Lead-Acid Batteries	Regulated Radioactive Waste
Regulated Untreated Infectious Medical Waste	Other Unacceptable Wastes
Aluminum Dross or Salt Cake Waste	

As soon as the existence of unauthorized waste (or materials) is detected, steps shall be taken by the Offeror as may be necessary to safely segregate the unauthorized from the authorized waste (or materials) and move it to temporary storage area in a manner consistent with applicable law. Hazardous, toxic, and radioactive wastes (or materials) shall be handled as follows:

- If waste is found in a truck, park the truck in an isolated area.
- If waste is identified on the working face, move operations away from the area and secure the affected area to avoid potential contact.
- Immediately notify all appropriate entities and personnel as per the landfill emergency response plan.

Unauthorized waste (or materials) shall be managed in a manner that minimizes interference with Landfill operations, prevents its release to the environment, ensures its containment, and prevents its mixing with other authorized waste (or materials). The Offeror shall cooperate with the Authority in identifying the origin of any unauthorized waste (or materials).

The Offeror shall be ultimately responsible for guarding against the acceptance/landfilling of hazardous wastes and other unacceptable wastes (or materials). If the Offeror discovers any hazardous, regulated untreated infectious medical, unapproved special or otherwise unacceptable wastes (or materials), the Offeror shall immediately notify the Authority and MDEQ as applicable.

The Offeror shall initiate a training program for all employees in the screening of incoming wastes to prevent the disposal of unauthorized waste (or materials). This training program shall be updated and repeated on a regular basis and shall incorporate any new and existing governmental agency guidance, guidelines, or regulations on such activities. Status and

attendees of training shall be presented in the annual landfill status report.

## 2.5 Method of Delivery

### 2.5.1 Municipal Waste

Waste materials will be delivered by users of the Landfill in mobile, over-the-highway solid waste conveyance apparatus, with mechanical self-unloading devices, including but not limited to transfer trailers, packers, roll-offs, and dump trucks. There may be occasions when the general public will deliver waste materials direct to the disposal site in small vehicles such as pickup trucks or small stake-body trucks. Care shall be taken by the Offeror in directing these vehicles to a proper disposal area at the landfill working face.

The Offeror shall operate and maintain the existing convenience center at the Landfill for use by small vehicles. The Offeror shall direct said vehicles to the convenience center and shall be responsible for the clean-up and transportation of waste containers from the convenience center to the working face of the Landfill for proper disposal on a daily basis.

### 2.5.2 Special Waste

Special Waste, industrial solid waste as defined in accordance with Code Miss. R. 11-4:1.1(48) (2018), may be delivered to the Landfill by private haulers. All special waste entering the Landfill shall comply with all federal, state, and local rules and regulations prior to acceptance at the Landfill. Any special waste not approved shall be rejected at the scale house and turned away. Special waste shall not be accepted at any of the Three (3) transfer stations. Special waste shall be handled in accordance with the Landfill's Solid Waste Permit. The Offeror shall be responsible for determining and documenting the X, Y and Z coordinates for all special waste burial locations established during the term of the Agreement. The Offeror shall establish a special waste policy for the Landfill detailing special waste handling procedures as well as a schedule of all additional special waste fees or surcharges charged to customers of the Landfill for special waste handling and disposal. Said policy and fee schedule (Special Waste Annual Report) shall be presented to the Authority for consideration and approval on or before October 1<sup>st</sup> of each year during the term of the Agreement. Offeror shall also supply special waste customers with a copy of said policy for special waste handling that also details any additional special waste fees or surcharges.

### 2.5.3 Liquid Waste

The Authority received a solidification basin approval from MDEQ on October 26, 2011 as

detailed in Attachment D to this RFP. Any liquid waste shall be disposed of at the Landfill in accordance with the requirements of Miss. Code R. 11-4:1.4(10) of the Mississippi Commission on Environmental Quality Nonhazardous Solid Waste Regulations. Requirements for liquid waste shall mirror that detailed for special waste throughout this RFP. Offeror shall note that the area of the Landfill where the solidification basin was located at the time of this RFP is estimated to be closed in fiscal years 2020 and 2021. The Offeror shall be responsible for the relocation and/or reestablishment of the solidification basin prior to the aforementioned landfill closure activities. The Authority expects that the successful Offeror will continue operation of the solidification basin during the term of the Agreement.

#### 2.5.4 Testing/Documentation

All special waste shall be tested to verify that the waste is not hazardous or toxic. All special waste shall pass the TCLP test, as required by the Offeror and/or MDEQ, and an independent laboratory certification shall be furnished by the generator showing results of said testing. The TCLP test shall be required a minimum of once every three (3) years for any “on-going” special waste streams accepted at the Landfill. In addition to the TCLP, total percent solids, reactivity, corrosivity and ignitability shall be included in the data presented. A special waste application, furnished by the Offeror, must be completed by the generator showing all test results as required by MDEQ and /or the Offeror as well as color and odor characteristics, and must be identified by a special ID # uniquely specific to the waste in question. Before any special waste can be accepted for disposal, all test data, copies of information furnished and profile sheets shall be furnished to MDEQ for their review and approval. No special waste shall be accepted until full compliance with all MDEQ rules and regulations and Offeror requirements are assured. Profile applications shall be furnished by the Offeror and completed and signed by the generator. Approval or rejection of the special waste shall be transmitted to the generator by the Offeror. Offeror and generator shall update profiles and analytical tests a minimum of once every three (3) years for any “on-going” special waste streams accepted at the Landfill.

The Offeror shall have resources available from a hazardous waste emergency response contractor within 100 miles of the Landfill. Said emergency response contractor shall have all equipment, materials, licenses and hazardous waste training required to do business in the State of Mississippi. Phone numbers of the emergency response contractor shall be posted both at the landfill office and at the scale house.

## 2.5.5 On-site Testing

A representative sample of the special waste shall be tested, as described above, on a random basis or per truck basis, if designated necessary by the Authority or its authorized representative, and compared with the waste profile sheet. Offeror shall verify color, odor, flashpoint and pH, and perform the paint filter test on sludge's to verify compliance with information furnished by the generator and contained on the waste profile sheet. The special waste shall require a manifest, Offeror documentation of receipt, and any additional records pertaining to said waste. Proper documentation of said tests shall be available upon request by the Authority or MDEQ.

Vehicles carrying special waste shall not be allowed to discharge said waste until notified by the landfill manager that all test verification has been completed and the waste is acceptable. Should any special waste not pass the above verification, the vehicle shall be denied access to the Landfill until said discrepancy is resolved.

## 2.6 Record Keeping and Reporting Requirements

The Offeror shall keep all necessary records and provide to the Authority all information required by any permit identified in Attachment F of this RFP, MDEQ, or any other governmental body, and all attached appendices in a timely manner and in such a form as to comply with all permits and reporting requirements.

In addition to the above, records shall also be collected and maintained on items needed to comply with emission reporting and leachate management. Data requiring collecting and recording include:

- The quantity of leachate collected from the leachate collection system (monthly).
- The quantity of leachate collected from each riser/landfill cell at the Landfill (monthly).
- The quantity of leachate recirculated in the landfill (monthly).
- The quantity of leachate hauled to an off-site wastewater treatment facility (monthly).
- The quantity of leachate evaporated on-site by the Authority's leachate evaporator facilities (monthly) as provided by the Authority.
- The characteristics (BOD<sub>5</sub>, total suspended solids, pH, COD, and various metals) shall be collected at least monthly even when there is no leachate disposal to nearby wastewater treatment facilities.
- Statistical data on the distribution and weights of vehicular traffic entering the Landfill.

Statistical data shall be collected one day a month and shall include the following:

- Number and percentage of traffic between small trucks, rear loaded trucks, front loaded trucks, roll off trucks, and transfer trucks.
- Gross and tare weights of all categories of trucks entering the Landfill.

Reports shall be in a professional-looking, typed, report format and recorded on electronic media (disks, CDs, or DVDs).

All records referenced herein and developed and maintained by the Offeror as required by the Agreement resulting from this RFP shall be maintained by the Offeror at the Landfill. The Authority or its designated representative shall have the right to review, examine, and audit all records of the Offeror that pertain to the operation of the Landfill. All records shall be the property of the Authority. The Offeror, shall be responsible for reproducing any document which may become damaged.

### **3.0 Landfill Construction and Working Face Operations**

#### **3.1 Landfill Construction**

The landfill cell(s) constructed through Work Assignments authorized by the Authority under the Agreement shall be constructed in accordance with the MDEQ approved Solid Waste Permit documents. The Authority expects to define the administrative terms and any related compensation for Work Assignments under the terms of the Agreement. Digital copies of the permit documents are available if needed.

#### **3.2 Working Face Operations**

The Offeror shall place all municipal solid waste delivered to the Landfill in approved areas as directed by the Authority and shall properly compact the waste and shall place a minimum of six (6) inches of daily soil cover or other approved alternate daily cover over the waste at the end of each operating day. No waste shall be stored or left uncovered at the end of the day. The Offeror shall utilize alternate daily cover to the greatest extent practicable as determined by the Authority. The Offeror shall be responsible for insuring that any alternate daily cover materials, supporting equipment and facilities are in good working condition, stored properly and maintained near the working face.

Waste unloading shall be supervised by experienced, competent operating personnel. Unloading of waste shall be confined to the smallest area practical to minimize scattered litter and to minimize

the use of daily cover. Unloading of waste shall be conducted in such a manner as to minimize the waiting of haul vehicles. Should haul vehicles be unnecessarily detained due to the actions, inactions or activities of the Offeror, any additional cost to the Authority shall be paid by the Offeror.

### 3.2.1 Waste Placement

The Offeror shall follow the sequencing plan for filling of landfill cells as directed by the Authority and described in the Landfill Operating Plan.

The Offeror shall maintain daily X, Y and Z coordinates of solid waste within the Landfill and shall keep said coordinates on file at the landfill office.

### 3.2.2 Hot Loads

Hot loads shall be managed in accordance with industry standard landfill procedures to prevent fire from spreading to the working face or into previously placed waste. The material shall be observed for "hot spots" for twenty four hours before being uncovered and placed with the waste at the working face. Offeror shall provide the above service as part of regular operations and shall bear any related expense. However, should the situation require the use of additional equipment, manpower, or additional working hours beyond normal hours, the Offeror may seek additional compensation from the responsible party.

### 3.2.3 Airspace Utilization

Waste shall be compacted in a maximum thickness of two (2) feet. Additional compaction effort may be necessary in order to achieve proper compaction; however, under no conditions shall compaction effort be less than that described above. Compaction of in-place waste shall be equal to or exceed in-place densities of 1,600 lbs. per cubic yard as determined by the Authority over the life of the Agreement. In addition to the cumulative agreement compaction rate of 1,600 lbs per cubic yard, target semi-annual compaction densities of 1,300 lbs per cubic yard and a target 2 year cumulative compaction density of 1,450 lbs per cubic yard shall be calculated and presented in semi-annual reports to the Authority. While it is well documented that compaction densities will vary depending on the depth of buried MSW below the working face, the target densities will be used to identify compaction density trends. In the event that compaction density trends are unsatisfactory, the Authority may request the Offeror to develop a remedial plan of action to restore acceptable compaction densities or withhold retainage.

The Offeror will be provided with a calculated allowance for air space consumed by final closure construction activities or from construction of landfill support facilities (such as access roads within the Landfill) that would adversely impact compaction density. The Offeror will not be allowed to take credit for any consolidation volumes from portions of the Landfill that are in final closure mode.

The Offeror may utilize alternate daily cover or a soil daily cover within the rules and regulations of MDEQ and in accordance with the permits for the Landfill. Intermediate cover shall be placed as required by the Landfill's permits, but not more often than required by said permits. Daily and intermediate cover shall not exceed 20% of the gross available airspace.

The Offeror shall make density calculations at least semi-annually, and more often if deemed necessary, to verify compaction densities. The surface of the Landfill will be surveyed by the Authority in September 2018 (prior to the agreement start date of October 1, 2018) and this survey will be used by the Offeror as the initial baseline surface of the Landfill for calculating compaction densities and air space utilization throughout the life of the Agreement. Semi-annual surveys shall be performed under the direction and expense of the Offeror in early June and early December of each year by using one of the following methods:

- a) aerial photography by air plane LiDAR surveying methods
- b) Unmanned Aerial Vehicles (UAV) LiDAR surveying methods
- c) Physical on-ground surveying using acceptable surveying instruments

The Offeror shall furnish the results of said surveys and compaction density calculations to the Authority at its regular July and January meetings respectively each year immediately following said June and December surveys described above. The gross airspace filled for any period of operation (6 months, 2 years or cumulative time) shall be the volume between the surveyed surface of the Landfill at the beginning of the period and the surveyed surface of the Landfill at the end of that period. The gross airspace shall be reduced by 20% to allow for daily cover and intermediate cover and by any final closure activities or landfill support facilities (such as access roads within the Landfill) that adversely impact airspace utilization.

If the actual compaction density over the given time periods does not meet the target compaction densities or cumulative compaction density, the Authority may require a remedial corrective action plan or an increase in the amount of the performance bond or withhold retainage from the monthly payments to the Offeror until satisfactory densities are achieved. In



the event that the in-place densities are below 1,600 lbs per cubic yard at the end of the life of the Agreement, the Offeror shall reimburse the Authority for the loss of usable airspace. Such reimbursement shall be calculated by multiplying the difference in the tons of waste that should have been placed and the actual tons placed by the tipping fee in effect on the date the final field survey was completed. An example of said calculation is shown as follows:

**Example Airspace Calculation**

Gross Airspace used as determined from surveys	1,000,000 C.Y.
Less allowance for daily and intermediate cover	
20% x 1,000,000	-200,000 C.Y.
<u>Allowance for airspace lost due to final closure activities or</u>	<u>- 100,000 C.Y.</u>
<u>other landfill support facilities (access roads within the Landfill)</u>	
Net Airspace used	700,000 C.Y.
Specified minimum density	
0.80 tons/C.Y. (1,600 lbs/C.Y.)	<u>x 0.80 tons/C.Y.</u>
Minimum tons that should have been placed	560,000 tons
Actual tons placed from waste stream records	<u>- 550,000 tons</u>
Deficiency	10,000 tons
Gate rate at time of final survey and calculation	<u>x \$22.00/ton</u>
Reimbursement due from Offeror	\$ 220,000

If a deficiency in the airspace utilization is found, the Authority shall notify the Offeror of such deficiency and the amount of reimbursement due. Reimbursement for lost airspace will be due within sixty (60) days of the receipt of the deficiency notice. If reimbursement is not received within sixty (60) days, the Authority shall have the right to seek remedy with the Offeror, Offeror’s bonding company or withhold retainage from the monthly payments to the Offeror.

Dozer(s) and other construction equipment shall not be considered as acceptable landfill compactors except in emergency conditions. Compactors shall be specifically designed for the purpose of compacting waste materials and shall have a minimum operating weight of at least 100,000 lbs.

**3.2.4 Lift Height**

Lift heights shall be approximately ten (10) to fourteen (14) feet except where necessary to adjust for final grades. Lift heights may vary to accommodate for proper elevation on exterior

slopes and for final grade elevations.

### 3.2.5 Initial Lift

Placement of the first four (4) feet of waste in a new disposal area is critical. Offeror shall remove any and all objects from the waste in excess of two feet long to reduce the chance of said object being pushed through the protective layer and penetrating the synthetic liner. Waste placement during this critical time shall be continually observed and inspected by persons employed by the Offeror. Said persons shall remove by hand all objects as set forth above. Persons employed to inspect the waste placement shall be located at ground level at the working face. Persons operating equipment shall not be acceptable for this purpose while operating said equipment. All objects removed shall be placed upon the top of a ten (10) foot lift and crushed, broken up, or otherwise disposed of in a safe and proper manner. Landfill compactor equipment shall not be utilized during placement of the initial four (4) feet of waste. Once a minimum of four (4) feet of waste has been placed, landfill compactors may be utilized on waste above the initial four (4) feet.

### 3.2.6 Cover Material

Daily cover shall be applied at the end of each working day or as waste placement is completed in specified areas during the working day. When soil is used for daily cover, it shall be a minimum of six (6) inches thick. The Offeror shall use care in the placement of daily cover to insure that excessive cover is not applied. The Offeror shall utilize alternate daily cover to the greatest extent practicable. Daily cover placed on the working face shall be removed at the beginning of the next working day and shall be reused as daily cover to the extent possible at the end of the day. Cover material shall be excavated and transported by the Offeror from the area of the Landfill where the next landfill cell is to be constructed or other stockpiled areas if approved by the Authority.

Alternate daily cover material must be acceptable to MDEQ.

Intermediate cover shall be applied to those areas as required by the Landfill's Solid Waste Permit. Intermediate cover shall be properly graded and compacted to a minimum thickness of twelve (12) inches and shall be maintained with proper grassing so as to control stormwater and prevent erosion. Any washes or erosion areas of the intermediate closed landfill sections shall be repaired by the Offeror promptly as they occur.

Cover materials shall be applied, graded and compacted in a manner which shall prevent erosion and ponding of stormwater. Excavation of cover material from future construction areas shall conform to the elevations shown on the permit drawings. The in-place cover shall be maintained until additional waste placement or the addition of intermediate or final cover occurs.

The Offeror shall ensure that surface drainage flows away from the working face. At no time shall the Offeror allow surface water that comes into contact with the waste to drain from within the Landfill to stormwater runoff channels or sedimentation ponds. All surface water that comes into contact with the waste is designated as leachate and shall be collected and handled as leachate.

### 3.3 Slopes/Settlement

Offeror shall maintain all exterior and interior slopes to prevent slides, erosion, or sloughs. In the event any of the above should occur, the Offeror shall make immediate repairs to any and all damaged areas at the Offeror's expense.

The Offeror shall be responsible for repair and restoration of depressions from settlement of the entire landfilled area. All such work shall be performed without additional cost to the Authority.

### 3.4 Final Elevations

Final closure of sections of the Landfill shall be the responsibility of the Authority under the terms and conditions of the Agreement. The Authority may authorize final closure construction to be performed by the Offeror through a Work Assignment. The Offeror shall insure that all final waste elevations and placement of intermediate cover are correct and in compliance with permitted plans and drawings. Failure on the part of the Offeror to properly place and control elevations will be solely the Offeror's responsibility. Any deviations from the approved plan shall be corrected by the Offeror at his expense.

It shall be the obligation of the Offeror to maintain proper grades and proper slopes on all exterior portions and perimeter slopes of the Landfill to insure that proper closure can be expedited and that remedial action to achieve proper closure shall not be necessary. Any remedial action that may become necessary as a result of the Offeror failing to properly construct and maintain slopes or due to Offeror's negligence shall be back-charged to the

Offeror at the actual cost of said remedial action plus any engineering/design costs and actual cost of the Authority personnel involved in said remediation.

#### **4.0 Leachate Management**

The Offeror shall be responsible for collecting, transporting, and treating leachate generated at the Landfill. Leachate shall be collected and pumped to the on-site 250,000 gallon leachate holding tank located at the northwest corner of the landfill property. Leachate withdrawn from the holding tank will be recirculated, evaporated at the Authority's proposed 25,000 gallon per day leachate evaporator facilities, or hauled off-site to a permitted wastewater treatment facility. The Offeror will be charged \$0.06 per gallon for any leachate evaporated at the Authority's proposed evaporator facilities.

The existing leachate riser at Cell 6 currently has a flow meter and flow totalizer. Cell 5 being constructed at the time of this RFP also has a flow meter and flow totalizer. Within the first year of the Agreement (10/1/18 through 9/30/19), the Offeror shall install (under a Work Assignment with the Authority) new flow meters at the existing leachate risers at Cell 1, 3, 4A, 4B, and 7. All new landfill cells constructed during this Agreement shall be equipped with flow meters and flow totalizers.

The Offeror shall monitor leachate volumes produced by each leachate riser (inclusive of closed cells) and report any excessive leachate volume productions. In the event that certain landfill leachate risers begin to produce excessive volumes of leachate, the Offeror shall investigate and implement any corrective action measures necessary to remediate excessive leachate production.

Should the expenses for transport and treatment or evaporation of leachate exceed \$50,000 per year, the excess above the stated \$50,000 shall be paid on a fifty/fifty (50/50) basis by the Authority and the Offeror. A year shall be defined as the Authority's fiscal year that begins on October 1st.

The Offeror shall immediately notify the Authority of any violations of Local, State, or Federal laws or regulations concerning the operation of the Landfill and/or the collection, transport and disposal of leachate.

As previously discussed in Section VIII (2.7) above, the Offeror shall measure and quantify leachate volumes and leachate characteristics sent to the Authority's proposed leachate evaporator facilities (with assistance from the Authority), off-site wastewater treatment facilities (as per the Leachate Pretreatment Permit) or recirculated to the Landfill.

#### 4.1 Leachate Collection

Stormwater that comes in contact with solid waste shall be classified and collected as leachate. Stormwater that does not contact solid waste shall not be allowed to enter the leachate collection system. The Offeror shall segregate stormwater runoff from the leachate collection system where no waste has been placed. New disposal areas shall be designed and constructed with stormwater diversions to minimize the amount of leachate generated. These diversions will divide the disposal area into subcells. The Offeror shall operate the stormwater diversions after construction such that stormwater that does not contact waste is pumped out of the new unused subcells and directed to the sedimentation ponds. When waste is to be placed in a new subcell, the Offeror shall be responsible for connecting leachate piping and securing stormwater diversions so that leachate is directed to the leachate collection system and not allowed to run off into surrounding areas. The cost of cleanup and remediation for any such occurrences shall be the responsibility of the Offeror. The costs associated with leachate collection shall be responsibility of the Offeror, including the cost of electricity to operate leachate and stormwater pumps.

#### 4.2 Leachate Storage

The Authority currently owns a 250,000 gallon leachate storage tank at the Landfill. The Offeror shall operate and maintain the leachate storage tank, leachate piping, leachate pumping facilities and secondary containment facilities. The Offeror shall be responsible for any equipment or facilities necessary to insure that leachate is not discharged into the environment. The Offeror shall be responsible for cleanup and remediation of leachate spills including fines that may be levied against the Authority for such spills (except for spills related to the leachate force main leading from the 250,000 gallon leachate storage tank to the proposed leachate evaporator as well as spills related to the evaporator itself). If the Offeror installs additional leachate storage, any new facilities shall be at the expense of the Offeror and shall remain property of the Authority at the end of the Agreement.

#### 4.3 Leachate Transport

The Offeror shall provide for the transport of leachate to the off-site treatment facilities along with any equipment necessary to provide leachate recirculation. The leachate shall be loaded onto transports on designated loading aprons so that any spills shall be contained. Trucks used to transport leachate shall have all necessary local, state and federal permits.

The Offeror shall provide the necessary equipment to pump leachate from the storage facilities to the truck. The Offeror shall be responsible for spills when loading transport trucks and shall be responsible for remediation of the same including any fines. In the event any unusual, severe or critical volume of leachate shall be produced, the Offeror shall provide the necessary transport volumes to assure that the total storage capacity is not exceeded.

If the Three Rivers Industrial Park (proposed to be located on property owned by the Authority that is situated east of Beulah Grove Road in Pontotoc County) is developed, sanitary sewer service may become available. The construction of a leachate pump station and associated force main to these sewers may be possible at that time. If the development of the aforementioned industrial park becomes a reality the cost of these facilities and their use along with the corresponding reduction in transportation cost may be negotiated with the Offeror at that time.

A daily record of the number of gallons of leachate leaving the site for disposal and the amount of leachate recirculated within the Landfill shall be maintained at the landfill office and furnished to the Authority on both a monthly and annual basis. Each leachate transport vehicle leaving the site shall have a manifest signed by the scale clerk, a copy of which shall be furnished to the Authority for recordkeeping and billing purposes.

#### 4.4 Leachate Treatment

The Authority is in the process of designing and constructing a new 25,000 gallon/day leachate evaporator facility on the west side of the Landfill. The proposed evaporator facilities may be functional by Spring of 2019. Residuals produced by the evaporator will be collected by the Authority and transported to the working face of the Landfill for disposal. The Offeror shall coordinate leachate residual disposal with the Authority's staff. The Authority will not weigh or compensate the Offeror for leachate residual disposal at the Landfill under the terms of the Agreement.

In the event that leachate volumes exceed the capacity of the proposed leachate evaporator, the Offeror shall transport the leachate to an off-site permitted treatment facility or to an alternate facility if approved by MDEQ and the Authority. The current NPDES Pretreatment Permit has provisions for taking leachate to the City of Pontotoc or to the City of Oxford. The cost for leachate treatment at the City of Pontotoc is not established at this time. At the time of this RFP, the City of Oxford treats leachate from the

Landfill at a cost of \$0.06 per gallon. The cost of leachate transportation and treatment shall be the responsibility of the Offeror as outlined in Section VIII (4.0) above. The Offeror shall manage the storage, transport and treatment of leachate so that requirements of the facility permits are met. A history of leachate volumes (October 2008 through December 2017) and characteristics (calendar year 2017) is included with this RFP as Attachment A.

## **5.0 Cover Excavation**

Soil for daily and intermediate cover shall be excavated from approved areas as directed by the Authority and, when applicable, in accordance with approved grades as shown by the finish sub-grade elevations for future disposal areas. All elevations shall be furnished to Offeror prior to the beginning of operations under the Agreement that begins 10/1/18.

All areas excavated shall be properly graded to prevent standing water and shall be kept in a condition acceptable to the Authority. Erosion control measures such as silt fences, hay bales, and soil berms shall be installed and properly maintained to prevent washouts and to prevent the entry of any stormwater waste and/or silt run off into completed waste cells or environmentally sensitive areas. Ingress and egress to the borrow area shall be maintained at all times in a manner satisfactory to the Authority.

## **6.0 Equipment**

The Authority perceives the minimum equipment level as that which is necessary to accomplish the tasks set forth in this RFP. However, if circumstances later dictate that additional equipment or a larger class of equipment is deemed necessary to obtain the necessary compaction densities, the Offeror shall be responsible to provide whatever equipment and personnel required at no extra expense to the Authority.

The Offeror shall furnish all equipment necessary for the operation of the facility and such equipment shall be safe, sanitary, in good working condition and free of any leaks. For an average monthly tonnage of up to 20,000 tons (average volume being landfilled at the time of this RFP), the Offeror shall provide the minimum compaction and cover equipment listed below. This recommendation for minimum compaction and cover equipment shall in no way release the Offeror from providing all other equipment necessary to operate the Landfill in accordance with the minimum requirements of this document (compaction, vehicle turnaround time, etc.). Equipment furnished by the Offeror is expected to be capable of performing the task for which it is intended. Equipment that is not capable of performing the task for which it is intended will be replaced in a

timely manner by the Offeror at no additional expense to the Authority. Equipment that breaks down frequently and causes delays for patrons of the Landfill shall not be tolerated and shall be replaced in a timely manner by the Offeror. The aforementioned minimum equipment list is detailed as follows:

- One Caterpillar 836L landfill compactor (or equivalent) with a minimum operating weight in excess of one hundred thousand (100,000) pounds (current operator has two (2) landfill compactors).
- One Caterpillar D8T-WHA dozer (or equivalent; current operator has two (2) dozers).
- One Caterpillar D6T-WHA dozer (or equivalent).
- One Caterpillar 330L hydraulic excavator (or equivalent).
- One self propelled water truck or mobile water tank with appropriate towing equipment with 3,000 gal. minimum with pump and fifty (50) foot hose for dust control and firefighting capability.
- One Caterpillar 730 articulated dump truck (or equivalent).
- A minimum of one (1) three (3) inch and one (1) six (6) inch mud pump for emergency use during unusual storm events and for normal leachate management purposes.
- Emergency generator with enough power to operate both the scales and scale house simultaneously.
- Backup equipment as necessary. In no event shall the Offeror operate for more than seventy two (72) hours without a full complement of the “major” equipment as listed in the eight (8) “bullets” shown immediately above. The Offeror shall notify the Authority or its authorized representative on a daily basis as to the status of all non-functioning “major” equipment.
- Necessary equipment for communication between the scale house, working face, and the landfill office.
- Necessary equipment for maintaining slope stabilization and grass cutting operations.
- Necessary facilities to provide and maintain portable wind and litter screens and fences.
- Steel working face dump rack.
- Necessary equipment (including dumpsters and roll-off trailers) to operate and maintain the landfill convenience center.
- Necessary equipment for picking up unwanted litter and other debris at the Landfill, along the landfill access road, and Highway 278 (76).
- Necessary equipment for providing alternative daily cover facilities.



- Necessary equipment for leachate recirculation.
- Necessary equipment for grading of unpaved access roads located inside the Landfill.
- Necessary equipment for nail and other metal debris removal on both paved roads (beginning at Highway 278 (76) to the turn-off at the landfill office) and all unpaved roads within the Landfill.
- Maintenance tools and equipment necessary to service and maintain landfill equipment.
- Oil and fuel facilities (tanks and pumps) necessary for landfill equipment.
- Rain gauges for monitoring daily rain events at the Landfill.
- Sampling equipment for any environmental sampling required by any MDEQ issued permit.

Any substitutions (or equivalent) of the above equipment shall be approved by the Authority or its designated representative. Offeror shall be aware that the Authority may impose liquidated damages upon the Offeror for failure to provide the minimum equipment in good working order at all times during the term of the Agreement. The Authority may request that the Offeror(s) submit a copy of the list of equipment proposed in response to this RFP as a part of the Offeror selection process. As a requirement of this RFP, Offeror shall provide written evidence of the availability of listed equipment to the Authority at the time of signing of the Agreement and before the issuance of a Notice to Proceed.

## **7.0 Maintenance and Other Capital Improvements**

### **7.1 General**

For the Landfill to operate properly, all equipment must be kept in proper working order. This is necessary so that proper operations and proper safety is ongoing. This is important not only from a mechanical standpoint but from an aesthetic perspective. As the Landfill is a publicly owned facility, the proper appearance and maintenance of the equipment and the Landfill shall be stressed at all times. Ragged, unkempt, poorly maintained equipment and/or landfill facilities under the jurisdiction of the Offeror shall not be tolerated. The Authority shall have the right to insist upon proper maintenance and appearance of equipment at all times and shall further have the right to insist that the Offeror have poorly maintained equipment removed from the site and replaced with equipment meeting the intent of this RFP.

The Offeror shall be responsible for purchasing, operating, and maintaining all landfill equipment, at

a minimum, as per manufacturers' recommendations. The Offeror shall immediately implement a routine preventive maintenance program to complement the reliability of all landfill facilities.

The Offeror agrees to procure and maintain at his expense a parts inventory in order to minimize any disruptions or delays in performing necessary repairs and shall develop, in addition to the inventory, readily available sources of supply of parts for all equipment.

## 7.2 Landscaping and Grass Cutting

The Offeror shall provide all necessary equipment to properly maintain all grounds and landscaping.

Property designated as landscaped areas include:

- The property along the landfill access road between the Highway 278 (76) entrance and the scale house.
- The property around the scale house that is within a 25 foot distance from the edge of pavement.
- The property between the scale house and the turn off to the landfill office within a 15 foot distance from the edge of pavement.
- The property around the landfill office and maintenance shop.
- The property within 25 feet of the convenience center, tire trailers, and white goods/scrap metal collection facilities.

During the mowing season, mowing of all landscaped areas shall be attended to at a minimum of once every fourteen 14 days or more often as needed. Grass in landscaped areas shall be maintained between three (3) and five (5) inches at all times. Offeror shall maintain all plants, shrubs, and lawns in a manner acceptable to the Authority. Fertilization and irrigation of all plants, shrubs and lawns shall occur on a regular schedule as recommended by local practice of professional landscaper or horticulturists. Replacement of all shrubs if and as needed shall be at the expense of the Offeror.

Unlandscaped areas shall be mowed at least every 45 days or more often as needed during the time period beginning April 1<sup>st</sup> through October 31<sup>st</sup> each year.

Unlandscaped areas shall have a maximum grass height of nine (9) inches, except ditches, which shall have a maximum grass height of twelve (12) inches.

The Offeror shall also remove undesirable aquatic weeds, aquatic brush, and aquatic trees from all sedimentation ponds/basins and ditches on an as-needed basis.

The Authority will be responsible for grass cutting around or near landfill gas collection facilities. The Authority will cut grass within six (6) feet of any exposed landfill gas pipelines

and within a six (6) foot diameter around landfill gas wells.

The Offeror shall be responsible for mowing a service lane, a minimum of twelve (12) feet in width where possible, both immediately inside and outside the landfill perimeter security fence on at least an annual basis.

### 7.3 Facilities Maintenance

#### 7.3.1 Housekeeping

The Offeror shall be responsible for performing all housekeeping services in and around all buildings and structures (except the candlestick flare, generator and proposed leachate evaporator facility). All facilities shall be kept in a clean, neat, professional manner at all times. Janitorial functions (floor cleaning, window washing, trash removal, lavatory cleaning, etc.) shall be done throughout all structures.

#### 7.3.2 Site

The Offeror shall be responsible for maintenance of all operating facilities, storage tanks, monitoring devices, electrical devices, pumps, roadways, fences (including but not limited to the landfill perimeter security fencing), gates, drainage structures, sedimentation ponds, silt removal devices, weirs and other such devices. Additionally, the Offeror shall maintain in proper working order and strict compliance with applicable law all structures, facilities and equipment for which the Offeror is responsible under this RFP including the leachate collection system and groundwater and gas monitoring wells. In the event any structure becomes damaged or malfunctions in any way, the Offeror shall immediately notify the Authority or its authorized representative by phone, email or personal contact and shall follow up with a detailed written report within twenty four hours of the incident. Damage shall be inspected by the Authority or its authorized representative and the extent of the damage determined. All costs of repair and maintenance shall be paid by the Offeror with the exceptions of those damages resulting from Force Majeure.

The Offeror shall be responsible for providing and maintaining all fuel storage facilities on the site. Fuel storage areas shall be constructed and maintained to provide adequate secondary containment and spill prevention features in accordance with MDEQ guidelines and the approved SPCC Plan. The Offeror shall provide/perform all inspections and reports in accordance with appropriate local, state, and federal regulations and guidelines. The fuel storage facilities shall include but are not limited to, all temporary and permanent

fuel oil tanks, gasoline tanks, propane tanks, used oil tanks, grease traps, and grease storage tanks. Any manifests required for movement of any of the above hydrocarbons (new or used) shall be the responsibility of the Offeror. Copies of all permits and manifests regarding any movement or storage of flammable liquids used at the Landfill shall be available to the Authority upon request.

The Offeror shall be aware that the Authority owns the 8,000 gallon diesel tank currently located in the fuel storage area near the landfill office. All other fuel, oil, and propane tanks are not property of the Authority and may not be on-site at the conclusion of the current landfill operations and construction agreement that ends on 9/30/18..

### 7.3.3 Utilities

Offeror shall assume the financial and maintenance service responsibility for all utilities; electric, gas, water, sewage, telephone, internet and cable service for the facility. The Offeror shall also be responsible for operation and maintenance of the on-site wastewater treatment plant located at the scale house. The Authority will be responsible for utility services at the existing candlestick flare, generator and for the proposed leachate evaporator facilities.

### 7.3.4 Ancillary Facilities

Offeror shall exercise care when operations occur around ancillary landfill facilities (groundwater monitoring wells, leachate collection system, gas monitoring stations, survey monument, landfill gas collection wells, landfill gas collection pipelines and appurtenances) to prevent damage that may result from heavy equipment or careless operation. If any ancillary facilities are damaged, Offeror shall immediately notify the Authority or its authorized representative by phone, email or personal contact and shall follow up with a detailed written report within twenty four hours of the incident. Damaged facilities shall be inspected by the Authority or its authorized representative and the extent of the damage shall be determined. All costs of repair or replacement as determined by the Authority or its authorized representative shall be paid by the Offeror.

### 7.3.5 Tire Disposal

The Offeror shall operate and maintain the tire disposal trailer area located at the landfill convenience center.

The Offeror shall provide and maintain at the landfill scale house a sign up/inventory

sheet for individuals or entities that dispose of tires at the landfill convenience center. It shall be the Offeror's responsibility to assure that tires are properly placed and stacked by individuals or entities disposing of tires in the tire disposal trailer. At no time shall tires be stacked on the ground outside the tire disposal trailer. The Offeror shall also be responsible for contacting the Authority for tire disposal trailer removal and transportation when said trailer is full and ready for disposal. The Authority currently has a contract with Liberty Tire Recycling for waste tire disposal.

#### 7.3.6 White Goods/Scrap Metal Disposal

The Offeror shall operate and maintain the white goods/scrap metal disposal area located at the landfill convenience center. Items containing Freon shall be kept in an area that is separate from other white goods/scrap metal in accordance with signage at the landfill convenience center.

The Offeror shall notify the Authority when the white goods/scrap metal area or container is nearing capacity so that the Authority's recycler can be notified. It shall be the Offeror's responsibility to coordinate activities with the Authority's recycler during the working hours of the Landfill and record tonnage of scrap metal removed by said recycler on each visit.

The Authority currently has a contract with Omnisource for white goods/scrap metal recycling.

#### 7.3.7 Landfill Convenience Center

The Offeror shall be responsible for operating and maintaining the entire landfill convenience center at all times. It shall be the Offeror's responsibility to empty all disposal bins (except those related to waste tires and white goods/scrap metals) on a daily basis and to keep the area free from loose debris and objects that might result in flat tires.

#### 7.3.8 Above Ground Storage Tank for Non-potable Water Storage

The Offeror shall provide a 3,000 gallon (minimum) above ground storage tank for dust control activities. It is the intent that the water tank to be used to quickly fill the water truck used for dust control operations at the Landfill. The ground storage tank shall be automatically filled by the existing on-site groundwater well or surface water from the stormwater detention pond(s). The Offeror shall be responsible for providing

all piping, valves, electrical, and instrumentation facilities necessary to operate the water tank.

#### 7.3.9 Maintenance of Buildings and Other Structures

Prior to contract award, the Authority or its authorized representative will conduct an inspection to document the initial condition of all facilities. The Offeror shall provide all routine maintenance of buildings and other structures at the Landfill under his jurisdiction to maintain the existing facilities as close as possible to the initial conditions as established by the initial inspection.

Routine maintenance shall include but not be limited to pressure washing, interior and exterior painting, minor repairs, routine maintenance and service, annual HVAC service, drainage and landscaping. The Offeror shall provide a yearly schedule for repairing and repainting all structures on the landfill property in the annual report.

Maintenance items on existing facilities that are not considered to be routine such as floor replacement, building modifications, roof replacements, HVAC replacements, and replacement of major electrical equipment components shall be identified and negotiated with the Authority by the Offeror on an as-needed, case-by-case basis.

Maintenance or repairs required due to Offeror negligence or facility misuse shall be the responsibility of the Offeror.

#### 7.4 Road Maintenance

The Offeror shall maintain all existing and future landfill roads. Said maintenance shall include all necessary repairs, grading, stoning, compaction, mud removal, and any other commonly accepted road maintenance to assure that all roads remain in a new or as-new-as-possible condition. The Authority shall conduct ongoing inspections and issue a notice of correction when warranted. All permanent and temporary service roads shall be maintained free of ruts, holes, or other irregularities. Tracked or steel wheel vehicles shall not be operated on paved roads. When and where possible, all efforts shall be made to prevent tracked or steel wheeled vehicles from traveling on stone or paved access roads. Damage to any and all roads shall be repaired by Offeror at his expense.

The Offeror shall maintain the pavement and shoulders of the paved road between the Highway 278 (76) and the entrance to the landfill office.

The Offeror shall provide and maintain a stockpile of roadway stabilizing material and make special provisions, as necessary, for uninterrupted and convenient access to the landfill working face during adverse weather conditions. Under no circumstance shall gravel be removed from an existing functioning access road at the Landfill and placed at another roadway location without prior approval by the Authority.

The Authority shall be responsible for maintaining any roadway or parking areas associated with the candlestick flare, generator or proposed leachate evaporator facilities.

The Offeror shall maintain the quality and passage of all access roads for all phases of the Landfill from the landfill entrance to the working face of the disposal area, and shall further maintain all perimeter roads and access roads to all facilities under all weather conditions in a manner acceptable to the Authority. Offeror shall provide all labor, materials and equipment necessary to provide the above.

All labor, material and equipment necessary to construct haul roads to the working face (to the Authority's satisfaction) shall be furnished by the Offeror and shall be at the sole expense of the Offeror. Haul roads shall be constructed and maintained in a satisfactory condition so that waste transporters have adequate access to the disposal area under all weather conditions and shall not require pulling of vehicles into or out of the disposal area except during extreme and unusual circumstances. At no time shall vehicles be "pushed" by other vehicles or equipment. In the event that a vehicle becomes stuck, cables, equipment and labor shall be supplied by the Offeror at his/her sole expense and shall be utilized at vehicle owner's request to tow said vehicle to a point where the vehicle can move under its own power. Any liability resulting from damage to vehicles or injuries to individuals shall be the Offeror's responsibility.

Should a vehicle become disabled due to mechanical failure, the Offeror shall have available adequate mechanical equipment and personnel to assist the disabled vehicle(s). This assistance shall be limited to physically assisting vehicles in unloading and leaving the Landfill. This paragraph shall not be construed to require any mechanical repair responsibilities, other than that resulting from Offeror negligence.

Offeror shall maintain a turnaround area in conjunction with the haul road and working face in order to expedite and facilitate the ingress and egress of vehicles to the working face in a timely manner. Said turnaround area shall move with the working face so that waste vehicles are not required to back up more than one hundred (100) feet or more under

normal conditions in order to empty loads. Turnaround areas shall be capable of accommodating two (2) transfer vehicles simultaneously. The working face shall be large enough to accommodate at least five (5) vehicles discharging simultaneously (steel working face dump rack).

Site conditions shall be maintained to enable transport equipment/vehicles to enter, discharge and exit no more than a twenty to thirty (20-30) minute time period.

Should weather conditions be of such extreme nature that operations are no longer practical, the Offeror shall immediately notify the Authority or its authorized representative and all three (3) transfer stations. Operations shall not be discontinued without the prior approval of the Authority or its authorized representative.

#### 7.5 Litter Control

The Offeror shall provide and maintain portable wind and litter screens and fences and shall keep the site free and clean of all litter on a daily basis. In the event of unusual storm/weather events causing widespread litter, the Offeror shall acquire additional labor or otherwise provide for the immediate response to clearing and policing all wind strewn litter both within and without the site property, including any surface waters. The Offeror shall take all necessary precautions to prevent the spread of windblown litter to adjacent properties owned by others. In the event this occurs, the Offeror shall provide immediate response to remove said litter. The Offeror shall remove all litter trapped by the landfill perimeter security fence or in trees or other vegetation on at least a weekly basis. The recovery and disposal of any fugitive debris onsite or offsite shall be the sole responsibility of the Offeror.

The Offeror shall also be responsible for policing and cleaning the access road from the intersection of Highway 278 (76) and the surrounding area to the landfill office on a daily basis.

Any debris that shall accumulate on Highway 278 (76) between Mississippi Highway 15 to the east of the Landfill and Rocky Ford Road (County Road 833) to the west of the Landfill, as a result of transportation vehicles entering or leaving the Landfill shall be removed by the Offeror at his expense. Frequency of debris pick up shall be on at least a weekly basis or more often as necessary. Care shall be taken to ensure that all debris is removed from all transport vehicles prior to vehicles exiting the landfill site.



Offeror shall maintain a cleanout area for all vehicles. Said cleanout area shall be located as near as possible to the working face in order to prevent windblown litter. When traffic allows, transport vehicles should be cleaned out prior to leaving the working face to help reduce the chance of litter and the problem of cleaning other areas.

#### 7.6 Dust/Mud Control

The Offeror shall be responsible for dust control during all hours of landfill operation. A water truck shall be employed to wet down all unpaved haul/access roads as necessary to minimize dust leaving the site. Offeror shall maintain a record that reflects each day the water truck is utilized by the Offeror for dust control activities at the Landfill. During construction of future cells, the Offeror must take extra precautions to prevent dust from interfering with the seaming of synthetic liners.

During periods of wet weather, the Offeror shall keep all roads free and clear of mud to minimize tracking of mud offsite. The Offeror shall be responsible for the cleaning of mud and dirt deposited on public roads by vehicular traffic leaving the Landfill on a daily basis. Offeror shall, at his expense, provide whatever means, methods, labor and equipment necessary to remove mud from vehicles prior to vehicles leaving the site.

#### 7.7 Erosion Control

The Offeror shall be responsible for preparing a Stormwater Pollution Prevention Plan (SWPPP) and providing and maintaining any erosion control devices for all areas of the landfill site, including roads and drainage devices, except those areas where additional construction or expansion is taking place under separate contract by others. Offeror shall annually, or more often if necessary, remove silt and clean and repair all sedimentation ponds/basins. Excess and undesirable aquatic weeds, brush, and trees shall be removed on an as needed basis. Monthly inspection reports, as required by the SWPPP, shall be provided with each monthly landfill report presented at the regular monthly Authority meeting.

#### 7.8 Miscellaneous

The Offeror shall provide vector, wild dog and bird control and prevention in all areas including the landfill disposal area and all facilities. Vectors shall not be tolerated. Special attention shall be given to proper maintenance of daily, intermediate, and final cover as well as proper drainage. In the event that rodent, wild dog and insect activity becomes apparent, supplemental control measures shall be initiated by the Offeror at his own expense.

Should efforts by the Offeror be deemed unsatisfactory by the Authority, Offeror shall provide, at his own expense, professional vector control assessment and treatment by a licensed company.

There will be no scavenging or salvage operations permitted at the site by employees or others. Violation of this requirement shall be stated in the Offeror's policy as reason for immediate dismissal or removal from the Landfill.

Burning of waste shall be prohibited at the Landfill. There shall be no open burning allowed. Any fires which accidentally occur shall be immediately extinguished by the Offeror at no additional cost to the Authority.

The operation of equipment, scheduling and work procedures shall be done in a manner consistent with the minimization of annoying or injurious noise to persons on or off the site.

## **8.0 Management**

Offeror shall conduct all business with the public in a professional and businesslike manner acceptable to the Authority. The Offeror shall be responsible for actions of his employees during all operating hours at the Landfill.

### **8.1 Capital Improvements/Facilities**

#### **8.1.1 Offeror**

The Offeror shall not develop any ancillary facilities or perform any other modifications without the Authority's approval, even if said modifications are at the Offeror's own expense. All such ancillary facilities or modifications shall become the property of the Authority at the expiration of the Agreement unless the Offeror at his expense, restores the areas to their intended functioning condition prior to the Offeror's occupancy. Removal of any ancillary facilities or modifications may be by the Offeror's own volition or by request from the Authority, provided such removal shall not adversely affect the operation of the Landfill, including but not limited to its cover, liner and environmental controls.

#### **8.1.2 Landfill Facilities**

Offeror shall have access to all landfill facilities and the space contained therein, with the exception of those areas designated for use by the Authority. Offeror shall facilitate the use of space for those persons who may be on-site for the purpose of environmental monitoring

or inspection.

Offeror shall endeavor to maintain all facilities, office space and grounds in an acceptable manner and shall, upon termination of the Agreement, return all of the above, to the original condition.

## 8.2 Personnel

All personnel furnished by the Offeror shall be competent and skilled in the performance of the work to which they are assigned. Failure or delay in the performance of these specifications due to the Offeror's inability to obtain personnel of the number and skill required may constitute a default of this Agreement. Operations or work not directly associated with the landfill operations may be subcontracted out to qualified businesses as long as the contracted business has the necessary bonds, insurance, and license to operate in Mississippi. Under no circumstance shall any illegal immigrants be employed by the Offeror or any subcontractor on the landfill property.

Offeror shall provide the following staffing on-site as a minimum:

- Landfill Manager
- Scale Attendant/Clerk
- All necessary heavy equipment operators
- All necessary laborers

As waste volumes increase over time, the Offeror shall employ additional personnel as required. In addition, the Offeror shall have requisite off-site personnel standard in the solid waste industry (landfills) for emergency operations, management support and functions including accounting, compliance, environmental health and safety.

The Offeror's Landfill Manager shall be certified by the State of Mississippi pursuant to Miss. Code Ann. § 21-27-211 (2017) and the current Regulations for the Certification of Operators of Solid Waste Disposal Facilities Miss. Code R. 11-4:8.1-8.4 (Adopted August 24, 2013). The Offeror shall demonstrate that the Landfill Manager is participating in ongoing educational programs related to landfill management and the environment in general.

The Offeror shall designate a chain-of-command whereby employees can be called upon for emergencies. The Landfill Manager shall attend Authority meetings as necessary or as requested by the Authority, at no additional cost to the Authority. All Offeror emergency call-in

services, labor and equipment shall be at the Offeror's expense.

## **9.0 Safety**

### **9.1 Rules/Regulations**

Offeror shall comply with all Local, State, and Federal regulations, laws and statutes which apply to the work and to safety in particular.

Offeror shall comply with Mississippi Department of Employment Security current requirements.

Offeror shall comply with all current Federal Department of Labor Safety and Health Regulations under the Occupational Safety and Health Act of 1970, 29 U.S.C. § 651 et. seq. (2012) and the Contract Work Hours and Safety Standards Act 40 U.S.C. § 3701 et. seq. (2012).

Offeror shall be solely and completely responsible for conditions in/at the landfill property including operational safety during performance of the Agreement. The obligation exists twenty four (24) hours a day, each and every day, throughout the term of said Agreement.

### **9.2 Training**

Offeror shall provide regularly scheduled training sessions for all operations employees on a monthly basis. These training sessions shall be documented as to time, date, and content, and copies of training outline shall be furnished to the Authority. These training sessions shall be for the purpose of educating employees as to the proper operation of a state-of-the-art Subtitle D landfill with emphasis on daily operations, regulations, environmental concerns, the liner system and its purpose, and safety. The Authority or its authorized representative shall be notified in advance of the schedule for said sessions and may participate as an observer.

Employees of the Offeror shall receive, at a minimum, supervised annual training in:

(1) fighting and controlling landfill fires, (2) proper emergency response procedures, (3) identifying prohibited waste, (4) proper procedure when and if prohibited waste is discovered, and (5) proper operation of a hand-held fire extinguisher.

The Authority shall not have any responsibility for methods, means, sequences or techniques selected by the Offeror for safety precautions and programs, or for any failure to comply with laws, rules, regulations, ordinances, codes or orders applicable to the Offeror

furnishing and performing the services under the Agreement.

Offeror shall maintain an ongoing safety program and shall notify the Authority or its authorized representative of all accidents and/or damage that occur within twenty-four (24) hours. The Offeror shall be required to prepare an accident and/or damage report of any accidents and/or damage that occur while performing services under the term of the Agreement. This shall include any accidents and/or damages incurred by users of the Landfill as well as the Offeror. The Authority or its authorized representative shall immediately be notified of any major occurrences such as bodily injury (to either users or personnel) or structural damage to the facilities. A written report shall be submitted to the Authority or its authorized representative within twenty-four (24) hours containing the date, time, locations and complete description of all incidents. The offending party or representative thereof shall also be recorded and required to sign the accident/damage report prior to departing the Landfill.

The Offeror shall designate a responsible member of his organization at the Landfill whose duty shall be the prevention of accidents.

### 9.3 Damages

All accident and/or damage reports shall be included in the monthly and annual reports to the Authority. Said reports shall be completed and filed as required for MDEQ.

Offeror shall make good any damage, injury or loss to private property and to property of the Authority resulting from the willful or negligent acts of the Offeror in conduct of the Agreement.

During the term of said Agreement, the Offeror shall be required to report immediately to the Authority any damage it discovers related to the landfill gas collection system.

### 9.4 Emergency Response Plan

Offeror shall prepare an emergency response plan designating procedures to be followed and persons to be contacted in the event an emergency occurs. All employees shall be familiar with said plan and shall have ready and full access to the written plan and be informed of the location of the plan. Emergency phone numbers shall be posted at all phone locations and bulletin boards.

In emergencies affecting the safety of persons or the work or property at the site or adjacent thereto, the Offeror, without special instruction or authorization from the Authority, shall be obligated to act at his discretion to prevent threatened damage, injury or loss. The Offeror shall immediately notify the Authority or its authorized representative when an emergency occurs.

When emergency services are required at the disposal site, the appropriate response agency shall be contacted immediately by telephone or other two-way communications equipment provided by the Offeror. After the request for emergency assistance has been placed, the Offeror shall immediately notify the Authority or its authorized representative of the emergency situation. The Offeror shall arrange to meet the responding emergency personnel and accompany or direct them to the emergency location.

Offeror shall train its personnel in fire control procedures and take steps to thoroughly extinguish any fires which break out at the site. Training shall include fire prevention methods, preventive maintenance and use of earth stockpiles. Earth stockpiles shall be maintained near the working face to be used to extinguish and prevent the spread of any fires that occur in or near the waste.

Basic emergency first aid supplies and apparatus shall be readily available at the Landfill. It is suggested that Offeror have a minimum of one (1) employee certified by the American Red Cross in fundamental first aid training and CPR present on site during all hours of landfill operation.

Offeror shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work in accordance with local, state, and federal regulations.

## **10.0                      Inspection**

### **10.1                      MDEQ, EPA and OSHA Inspectors**

Offeror shall facilitate all inspections made by MDEQ, EPA or OSHA personnel. Offeror shall notify the Authority of any scheduled inspections at least seventy-two (72) hours prior to the inspection and any unscheduled inspections within twenty-four (24) hours after the start of such inspection. MDEQ, EPA and OSHA inspectors must present proper identification before entering the facilities.

## 10.2 Authority Inspector

It is intended that representatives of the Authority shall be present on site from time-to-time during operating hours and at any other time deemed necessary to inspect all operations of the Offeror. The Authority reserves the right to inspect all facilities, operations, and records at all times. The Authority or its authorized representatives shall be accorded full cooperation by the Offeror.

The presence or absence of an inspector shall in no way relieve the Offeror from any requirements under the Agreement resulting from this RFP or the prevailing state and federal regulations. The Offeror acknowledges that the inspector is not authorized to change or modify said Agreement.

## 10.3 Notice of Violations

Offeror shall respond to notice of violations or corrective action notices within twenty-four (24) hours of the receipt of a communication from MDEQ notifying Offeror of the violation; failure to do so may result in the Authority taking whatever action is appropriate to correct same and back charging the Offeror for all time, materials, fines, penalties, and any engineering and legal fees. Continued failure to respond to the notices shall result in default of the Agreement by the Offeror.

## 11.0 Monitoring

The Offeror shall be responsible for providing environmental monitoring as required by the Authority's environmental permits (and all appendices) except for the Tier II test and tests related to emissions from the candlestick flare, generator or proposed evaporator facility which will be the responsibility of the Authority. If expenses for monitoring that are the responsibility of the Offeror exceeds \$25,000 per year, the excess shall be paid on a fifty/fifty (50/50) basis by the Authority and the Offeror. The Offeror will not be held accountable for additional environmental monitoring cost resulting from negligence from a previous Offeror.

The Offeror must facilitate the environmental monitoring of the site by providing assistance when or if needed by the persons performing said environmental monitoring. Said assistance shall include but not be limited to providing ingress and egress to the site and all monitoring locations, providing information on daily activities, providing access to all records and assisting in on-site transportation during inclement weather or unusual site conditions.

## **12.0 Environmental**

Offeror will at all times endeavor to protect the environment through proper operations and adherence to all federal, state and local laws and regulations. Any damages, fines, or penalties, and the costs of corrections, repairs, and construction and maintenance of any equipment or facilities required by environmental laws, occurring as a result of the Offeror failing to use proper procedures or as a result of negligence by the Offeror shall be paid by the Offeror.

Should the Authority at any time observe the Offeror violating the terms of the Agreement, environmental rules, Federal or State regulations, permit requirements, or endangering the safety or health of workers and/or the community, the Authority shall immediately notify the Offeror of said violation and Offeror shall take immediate action to rectify the situation. Should Offeror fail to respond to notification, the Authority may take whatever steps deemed necessary to correct the situation and to protect the environment and/or the health and safety of workers and the community. All costs associated with the Authority's action shall be paid by the Offeror.

### **12.1 Records**

At the end of the operating period or upon termination of the Agreement, all records regarding or related to operation of the Landfill shall become the property of the Authority.

## **13.0 Reports to MDEQ**

The Offeror shall be responsible for completing all requirements of the Annual Report to the MDEQ as required by Section IV of this RFP. 15, Miss. Code R. 11-4:1.4 (Adopted Aug. 23, 2017). The Authority reserves the right to prepare, review or approve certain portions of the Annual Report.

Unless otherwise specified by the Authority, all reports shall be submitted to the Authority within fourteen (14) days of a reporting period end date. Unless otherwise approved by the Authority, the Offeror shall not submit any reports directly to the MDEQ.



# **Attachment A**

## **Landfill Operations Data**

- **Landfill Annual Tonnage**
- **Leachate Summary**
- **2017 Stormwater Sampling Data**
- **2017 Leachate Quality Data**

## Landfill Annual Tonnage

Calender Year	Tonnage
2007	205658.32
2008	201854.79
2009	184802.57
2010	183450.46
2011	189077.18
2012	186046.04
2013	191123.56
2014	210210.67
2015	225049.86
2016	264557.43
2017	248903.54

# Leachate Summary

## LEACHATE SUMMARY

<u>FISCAL YEAR</u>	<u>TOTAL</u>	<u>RECIRCULATED</u>	<u>HAULED</u>	<u>LOCATION</u>	<u>TOTAL COST</u>	<u>CST W/C</u>	<u>CST TR</u>
Oct-08	329,038	329,038			\$0	\$0	\$0
Nov-08	300,978	300,978			\$0	\$0	\$0
Dec-08	334,183	334,183			\$0	\$0	\$0
Jan-09	290,007	290,007			\$0	\$0	\$0
Feb-09	237,789	237,789			\$0	\$0	\$0
Mar-09	274,717	274,717			\$0	\$0	\$0
Apr-09	259,577	259,577			\$0	\$0	\$0
May-09	267,450	267,450			\$0	\$0	\$0
Jun-09	237,403	237,403			\$0	\$0	\$0
Jul-09	184,059	184,059			\$0	\$0	\$0
Aug-09	182,108	182,108			\$0	\$0	\$0
Sep-09	214,207	214,207			\$0	\$0	\$0
<b>TOTAL</b>	<b>3,111,516</b>	<b>3,111,516</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Oct-09	321,963	321,963			\$0	\$0	\$0
Nov-09	249,577	249,577			\$0	\$0	\$0
Dec-09	321,953	321,953			\$0	\$0	\$0
Jan-10	325,794	325,794			\$0	\$0	\$0
Feb-10	243,542	243,542			\$0	\$0	\$0
Mar-10	315,229	315,229			\$0	\$0	\$0
Apr-10	266,373	266,373			\$0	\$0	\$0
May-10	253,442	253,442			\$0	\$0	\$0
Jun-10	223,272	223,272			\$0	\$0	\$0
Jul-10	192,036	192,036			\$0	\$0	\$0
Aug-10	137,132	137,132			\$0	\$0	\$0
Sep-10	142,310	142,310			\$0	\$0	\$0
<b>TOTAL</b>	<b>2,992,623</b>	<b>2,992,623</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Oct-10	122,306	122,306			\$0	\$0	\$0
Nov-10	168,260	168,260			\$0	\$0	\$0
Dec-10	246,333	246,333			\$0	\$0	\$0
Jan-11	238,812	238,812			\$0	\$0	\$0
Feb-11	268,124	268,124			\$0	\$0	\$0
Mar-11	346,153	346,153			\$0	\$0	\$0
Apr-11	342,536	342,536			\$0	\$0	\$0
May-11	309,307	309,307			\$0	\$0	\$0
Jun-11	277,522	277,522			\$0	\$0	\$0
Jul-11	242,195	242,195			\$0	\$0	\$0
Aug-11	167,021	167,021			\$0	\$0	\$0
Sep-11	206,056	206,056			\$0	\$0	\$0
<b>TOTAL</b>	<b>2,934,625</b>	<b>2,934,625</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Oct-11	164,978	164,978			\$0	\$0	\$0
Nov-11	127,753	127,753			\$0	\$0	\$0
Dec-11	196,147	196,147			\$0	\$0	\$0
Jan-12	307,084	307,084			\$0	\$0	\$0
Feb-12	287,656	287,656			\$0	\$0	\$0
Mar-12	355,651	355,651			\$0	\$0	\$0
Apr-12	351,545	351,545			\$0	\$0	\$0
May-12	364,103	364,103			\$0	\$0	\$0
Jun-12	196,200	196,200			\$0	\$0	\$0
Jul-12	256,522	256,522			\$0	\$0	\$0
Aug-12	299,685	299,685			\$0	\$0	\$0
Sep-12	149,287	149,287			\$0	\$0	\$0
<b>TOTAL</b>	<b>3,056,611</b>	<b>3,056,611</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

<u>FISCAL YEAR</u>	<u>TOTAL</u>	<u>RECIRCULATED</u>	<u>HAULED</u>	<u>LOCATION</u>	<u>TOTAL COST</u>	<u>CST W/C</u>	<u>CST TR</u>
Oct-12	229,227	229,227			\$0	\$0	\$0
Nov-12	229,312	229,312			\$0	\$0	\$0
Dec-12	159,731	159,731			\$0	\$0	\$0
Jan-13	149,567	149,567			\$0	\$0	\$0
Feb-13	158,996	158,996			\$0	\$0	\$0
Mar-13	197,295	197,295			\$0	\$0	\$0
Apr-13	277,904	277,904			\$0	\$0	\$0
May-13	297,633	297,633			\$0	\$0	\$0
Jun-13	186,488	186,488			\$0	\$0	\$0
Jul-13	193,965	193,965			\$0	\$0	\$0
Aug-13	305,720	305,720			\$0	\$0	\$0
Sep-13	335,790	335,790			\$0	\$0	\$0
<b>TOTAL</b>	<b>2,721,628</b>	<b>2,721,628</b>			<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

Oct-13	163,395	163,395			\$0	\$0	\$0
Nov-13	250,410	250,410			\$0	\$0	\$0
Dec-13	238,750	238,750			\$0	\$0	\$0
Jan-14	252,457	252,457			\$0	\$0	\$0
Feb-14	208,790	208,790			\$0	\$0	\$0
Mar-14	455,941	298,360	157,581	MPH	\$33,812	\$33,812	\$0
Apr-14	592,923	326,839	266,084	MPH	\$33,812	\$31,101	\$2,711
May-14	543,160	326,960	216,200	MPH	\$42,314	\$21,157	\$21,157
Jun-14	318,344	163,810	154,534	MPH	\$30,631	\$15,315	\$15,315
Jul-14	419,717	245,990	173,727	MPH	\$34,104	\$17,052	\$17,052
Aug-14	407,396	223,550	183,846	MPH	\$35,515	\$17,758	\$17,758
Sep-14	262,284	91,674	170,610	MPH	\$35,463	\$17,732	\$17,732
<b>TOTAL</b>	<b>4,113,567</b>	<b>2,790,985</b>	<b>1,322,582</b>		<b>\$245,652</b>	<b>\$153,926</b>	<b>\$91,725</b>

Oct-14	357,381	179,237	178,144	MPH	\$34,324	\$34,324	\$0
Nov-14	321,168	109,340	211,828	MPH	\$40,524	\$28,099	\$12,424
Dec-14	547,771	167,790	379,981	MPH	\$73,298	\$36,649	\$36,649
Jan-15	754,216	258,000	496,216	MPH	\$96,341	\$48,170	\$48,170
Feb-15	455,897	175,000	280,897	MPH	\$54,285	\$27,143	\$27,142
Mar-15	970,212	270,239	699,973	MPH	\$120,595	\$60,297	\$60,297
Apr-15	751,110	223,380	527,730	OXFORD	\$61,194	\$30,597	\$30,597
May-15	460,162	98,000	362,162	OXFORD	\$43,583	\$21,791	\$21,791
Jun-15	467,106	56,000	411,106	OXFORD	\$48,466	\$24,233	\$24,233
Jul-15	502,901	140,000	362,901	OXFORD	\$42,774	\$21,387	\$21,387
Aug-15	395,097	105,000	290,097	OXFORD	\$34,206	\$17,103	\$17,103
Sep-15	376,089	231,000	145,089	OXFORD	\$17,105	\$8,553	\$8,553
<b>TOTAL</b>	<b>6,359,110</b>	<b>2,012,986</b>	<b>4,346,124</b>		<b>\$666,692</b>	<b>\$358,346</b>	<b>\$308,346</b>

Oct-15	334,888	238,000	96,888	OXFORD	\$11,413	\$11,413	\$0
Nov-15	321,196	224,217	96,979	OXFORD	\$11,419	\$11,419	\$0
Dec-15	596,364	14,055	582,309	OXFORD	\$68,539	\$47,854	\$20,686
Jan-16	512,136	0	512,136	OXFORD	\$60,128	\$30,064	\$30,064
Feb-16	510,860	0	510,860	OXFORD	\$55,552	\$27,776	\$27,776
Mar-16	599,770	0	599,770	OXFORD	\$70,286	\$35,143	\$35,143
Apr-16	587,970	0	587,970	OXFORD	\$67,478	\$33,739	\$33,739
May-16	445,657	0	445,657	OXFORD	\$51,939	\$25,970	\$25,970
Jun-16	378,701	77,000	301,701	OXFORD	\$36,102	\$18,051	\$18,051
Jul-16	417,783	0	417,783	OXFORD	\$50,267	\$25,133	\$25,133
Aug-16	417,783	0	417,783	OXFORD	\$50,267	\$25,133	\$25,133
Sep-16	414,267	0	414,267	OXFORD	\$40,156	\$20,078	\$20,078
<b>TOTAL</b>	<b>5,537,375</b>	<b>553,272</b>	<b>4,984,103</b>		<b>\$573,546</b>	<b>\$311,773</b>	<b>\$261,773</b>

<u>FISCAL YEAR</u>	<u>TOTAL</u>	<u>RECIRCULATED</u>	<u>HAULED</u>	<u>LOCATION</u>	<u>TOTAL COST</u>	<u>CST W/C</u>	<u>CST TR</u>
Oct-16	266,277	0	266,277	OXFORD	\$25,874	\$25,874	\$0
Nov-16	267,229	0	267,229	OXFORD	\$25,933	\$25,029	\$904
Dec-16	477,541	0	477,541	OXFORD	\$46,428	\$23,214	\$23,214
Jan-17	522,382	0	522,382	OXFORD	\$49,118	\$24,559	\$24,559
Feb-17	470,328	0	470,328	OXFORD	\$45,995	\$22,997	\$22,997
Mar-17	552,774	0	552,774	OXFORD	\$55,666	\$27,833	\$27,833
Apr-17	471,704	0	471,704	OXFORD	\$45,852	\$22,926	\$22,926
May-17	336,889	0	336,889	OXFORD	\$30,014	\$15,007	\$15,007
Jun-17	336,852	0	336,852	OXFORD	\$34,612	\$17,306	\$17,306
Jul-17	373,840	0	373,840	OXFORD	\$36,584	\$18,292	\$18,292
Aug-17	350,381	0	350,381	OXFORD	\$34,072	\$17,036	\$17,036
Sep-17	350,859	37393	313466	OXFORD	\$30,508	\$15,254	\$15,254
<b>TOTAL</b>	<b>4,777,056</b>	<b>37,393</b>	<b>4,739,663</b>		<b>\$460,656</b>	<b>\$255,327</b>	<b>\$205,328</b>

Oct-17	265,177	0	267,177	OXFORD	\$25,811	\$25,811	\$0
Nov-17	324,200	58,510	265,190	OXFORD	\$25,841	\$25,015	\$826
Dec-17	348,112	58,634	289,478	OXFORD	\$28,168	\$14,084	\$14,084
Jan-18							
Feb-18							
Mar-18							
Apr-18							
May-18							
Jun-18							
Jul-18							
Aug-18							
Sep-18							
<b>TOTAL</b>	<b>937,489</b>	<b>117,144</b>	<b>821,845</b>		<b>\$79,820</b>	<b>\$64,910</b>	<b>\$14,910</b>



## 2017 Stormwater Sampling Data

# EDL Labs, Inc.

Report of Analytical Results

**Client:** Waste Connections  
**Lab ID:** 1706039-001  
**Project:** Outfall # 1  
**Client Sample ID:** Outfall 1  
**Collection Date:** 06/06/17 10:00  
**Sampled By:**

**PO No:**  
**WO No:** 1706039  
**Project No:**  
**Facility ID No:**  
**Date Received:** 06/07/17 11:40  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.80				1	pH Units	6/6/2017 10:00	150.1	JGB
<b>METALS</b>									
Zinc	BDL			0.0100	1	mg/l	6/9/2017 9:00	200.7	JGB
Biochemical Oxygen Demand	27.0			1.00	1	mg/l	6/7/2017 15:00	405.1	JGB
Chemical Oxygen Demand	102			3.00	1	mg/l	6/8/2017 10:10	410.4	JGB
Suspended Solids, Total	97.0			1.00	1	mg/l	6/9/2017 8:45	2540D	JGB
Turbidity	50			1.0	1	NTU	6/7/2017 13:00	10047	JGB

<b>Qualifiers:</b>	* Value exceeds permit limit.	A Recoveries affected by interferences/high background
	BDL Below Detection Limit	C Value is below Minimum Compound Limit.
	E Value above quantitation range	F Sample dilution caused poor/no surrogate recovery
	H Holding times for preparation or analysis exceeded	PQL Practical Quantitation Limit
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1706040-001  
**Project:** Outfall # 2  
**Client Sample ID:** Outfall 2  
**Collection Date:** 06/06/17 10:13  
**Sampled By:**

**PO No:**  
**WO No:** 1706040  
**Project No:**  
**Facility ID No:**  
**Date Received:** 06/07/17 11:40  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.92				1	pH Units	6/6/2017 10:13	150.1	JGB
<b>METALS</b>									
Zinc	BDL			0.0100	1	mg/l	6/9/2017 9:00	200.7	JGB
Biochemical Oxygen Demand	11.0			1.00	1	mg/l	6/7/2017 15:00	405.1	JGB
Chemical Oxygen Demand	27.0			3.00	1	mg/l	6/8/2017 10:12	410.4	JGB
Suspended Solids, Total	16.0			1.00	1	mg/l	6/9/2017 8:45	2540D	JGB
Turbidity	4.0			1.0	1	NTU	6/7/2017 13:00	10047	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1712111-001  
**Project:** Stormwater Out # 1  
**Client Sample ID:** Outfall 1  
**Collection Date:** 12/20/17 9:05  
**Sampled By:**

**PO No:**  
**WO No:** 1712111  
**Project No:**  
**Facility ID No:**  
**Date Received:** 12/20/17 15:55  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	6.64				1	pH Units	12/20/2017 9:05	150.1	JGB
<b>METALS</b>									
Zinc	0.0125			0.0100	1	mg/l	12/30/2017 7:43	200.7	JGB
Biochemical Oxygen Demand	11.0			1.00	1	mg/l	12/21/2017 15:42	405.1	JGB
Chemical Oxygen Demand	110			3.00	1	mg/l	12/29/2017 20:10	410.4	JGB
Suspended Solids, Total	31.0			1.00	1	mg/l	12/22/2017 9:00	2540D	JGB
Turbidity	27			1.0	1	NTU	12/21/2017 15:20	10047	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits





**Client:** Waste Connections  
**Lab ID:** 1712112-001  
**Project:** Stormwater Out # 2  
**Client Sample ID:** Outfall 2  
**Collection Date:** 12/20/17 9:05  
**Sampled By:**

**PO No:**  
**WO No:** 1712112  
**Project No:**  
**Facility ID No:**  
**Date Received:** 12/20/17 15:55  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.12				1	pH Units	12/20/2017 9:05	150.1	JGB
<b>METALS</b>									
Zinc	0.0524			0.0100	1	mg/l	12/30/2017 7:45	200.7	JGB
Biochemical Oxygen Demand	28.0			1.00	1	mg/l	12/21/2017 15:45	405.1	JGB
Chemical Oxygen Demand	30.0			3.00	1	mg/l	12/29/2017 20:10	410.4	JGB
Suspended Solids, Total	12.0			1.00	1	mg/l	12/22/2017 9:01	2540D	JGB
Turbidity	4.0			1.0	1	NTU	12/21/2017 15:20	10047	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



# EDL Labs, Inc.

Report of Analytical Results

<b>Client:</b>	Waste Connections	<b>PO No:</b>	
<b>Lab ID:</b>	1701149-001	<b>WO No:</b>	1701149
<b>Project:</b>	3 Rivers Landfill	<b>Project No:</b>	
<b>Client Sample ID:</b>	Bi Monthly Leachate	<b>Facility ID No:</b>	
<b>Collection Date:</b>	01/26/17 14:10	<b>Date Received:</b>	01/27/17 11:50
<b>Sampled By:</b>		<b>Matrix:</b>	AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.94				1	pH Units	1/26/2017 14:10	150.1	JGB
<b>METALS</b>									
Arsenic	0.0889			0.0250	1	mg/l	2/3/2017 12:50	200.7	JGB
Lead	BDL			0.0130	1	mg/l	2/3/2017 12:50	200.7	JGB
Zinc	0.782			0.0100	1	mg/l	2/3/2017 12:50	200.7	JGB
Nitrogen, Ammonia	688			2.40	12	mg/l	1/30/2017 14:00	350.2	JGB
Biochemical Oxygen Demand	591			1.00	1	mg/l	1/27/2017 15:00	405.1	JGB
Oil & Grease, Total	14.5			3.00	1	mg/l	1/30/2017 13:30	1664	JML
Suspended Solids, Total	34.0			1.00	1	mg/l	1/30/2017 13:10	2540D	JGB

<b>Qualifiers:</b>	* Value exceeds permit limit.	A Recoveries affected by interferences/high background
	BDL Below Detection Limit	C Value is below Minimum Compound Limit.
	E Value above quantitation range	F Sample dilution caused poor/no surrogate recovery
	H Holding times for preparation or analysis exceeded	PQL Practical Quantitation Limit
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits



# EDL Labs, Inc.

## Report of Analytical Results

**Client:** Waste Connections  
**Lab ID:** 1702059-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 02/08/17 2:28  
**Sampled By:**

**PO No:**  
**WO No:** 1702059  
**Project No:**  
**Facility ID No:**  
**Date Received:** 02/09/17 11:10  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.70		H		1	pH Units	2/8/2017 14:28	150.1	JGB
<b>METALS</b>									
Arsenic	0.0838			0.0250	1	mg/l	2/10/2017 11:22	200.7	JGB
Lead	BDL			0.0130	1	mg/l	2/10/2017 11:22	200.7	JGB
Zinc	0.0569			0.0100	1	mg/l	2/10/2017 11:22	200.7	JGB
Nitrogen, Ammonia	703			2.40	12	mg/l	2/10/2017 9:00	350.2	JGB
Biochemical Oxygen Demand	211			1.00	1	mg/l	2/9/2017 15:00	405.1	JGB
Oil & Grease, Total	14.0			3.00	1	mg/l	2/14/2017 8:15	1664	JML
Suspended Solids, Total	26.0			1.00	1	mg/l	2/13/2017 12:35	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



# EDL Labs, Inc.

## Report of Analytical Results

**Client:** Waste Connections  
**Lab ID:** 1702156-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 02/23/17 14:06  
**Sampled By:**

**PO No:**  
**WO No:** 1702156  
**Project No:**  
**Facility ID No:**  
**Date Received:** 02/24/17 11:40  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.71				1	pH Units	2/23/2017 14:06	150.1	JGB
<b>METALS</b>									
Arsenic	0.0761			0.0250	1	mg/l	3/3/2017 9:13	200.7	JGB
Lead	BDL			0.0130	1	mg/l	3/3/2017 9:13	200.7	JGB
Zinc	0.0460			0.0100	1	mg/l	3/3/2017 9:13	200.7	JGB
Nitrogen, Ammonia	646			2.40	12	mg/l	2/28/2017 22:10	350.2	JGB
Biochemical Oxygen Demand	433			1.00	1	mg/l	2/24/2017 15:00	405.1	JGB
Oil & Grease, Total	9.20			3.00	1	mg/l	2/27/2017 12:45	1664	JML
Suspended Solids, Total	48.0			1.00	1	mg/l	3/2/2017 9:00	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1703081-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 03/14/17 14:30  
**Sampled By:**

**PO No:**  
**WO No:** 1703081  
**Project No:**  
**Facility ID No:**  
**Date Received:** 03/15/17 12:00  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.66				1	pH Units	3/14/2017 14:30	150.1	JGB
<b>METALS</b>									
Arsenic	0.0641			0.0250	1	mg/l	3/16/2017 13:22	200.7	JGB
Lead	BDL			0.0130	1	mg/l	3/16/2017 13:22	200.7	JGB
Zinc	0.0295			0.0100	1	mg/l	3/16/2017 13:22	200.7	JGB
Nitrogen, Ammonia	555			2.40	12	mg/l	3/16/2017 8:00	350.2	JGB
Biochemical Oxygen Demand	1040			1.00	1	mg/l	3/15/2017 15:00	405.1	JGB
Oil & Grease, Total	8.50			3.00	1	mg/l	3/21/2017 15:00	1664	JML
Suspended Solids, Total	24.0			1.00	1	mg/l	3/16/2017 16:00	2540D	JGB

<b>Qualifiers:</b>	* Value exceeds permit limit.	A Recoveries affected by interferences/high background
	BDL Below Detection Limit	C Value is below Minimum Compound Limit.
	E Value above quantitation range	F Sample dilution caused poor/no surrogate recovery
	H Holding times for preparation or analysis exceeded	PQL Practical Quantitation Limit
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1703153-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 03/27/17 14:29  
**Sampled By:**

**PO No:**  
**WO No:** 1703153  
**Project No:**  
**Facility ID No:**  
**Date Received:** 03/28/17 11:40  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.99				1	pH Units	3/27/2017 14:29	150.1	JGB
<b>METALS</b>									
Arsenic	0.0799			0.0250	1	mg/l	4/5/2017 10:51	200.7	JGB
Lead	BDL			0.0130	1	mg/l	4/5/2017 10:51	200.7	JGB
Zinc	0.106			0.0100	1	mg/l	4/5/2017 10:51	200.7	JGB
Nitrogen, Ammonia	352			2.40	12	mg/l	3/30/2017 14:02	350.2	JGB
Biochemical Oxygen Demand	872			1.00	1	mg/l	3/28/2017 15:00	405.1	JGB
Oil & Grease, Total	10.3			3.00	1	mg/l	3/30/2017 10:00	1664	JML
Suspended Solids, Total	94.0			1.00	1	mg/l	3/30/2017 15:00	2540D	JGB

**Qualifiers:**

- \* Value exceeds permit limit.
- BDL Below Detection Limit
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- A Recoveries affected by interferences/high background
- C Value is below Minimum Compound Limit.
- F Sample dilution caused poor/no surrogate recovery
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1704091-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 04/19/17 14:27  
**Sampled By:**

**PO No:**  
**WO No:** 1704091  
**Project No:**  
**Facility ID No:**  
**Date Received:** 04/20/17 11:20  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.01				1	pH Units	4/19/2017 14:27	150.1	JGB
<b>METALS</b>									
Arsenic	0.0897			0.0250	1	mg/l	4/21/2017 12:01	200.7	JGB
Lead	BDL			0.0130	1	mg/l	4/21/2017 12:01	200.7	JGB
Zinc	0.116			0.0100	1	mg/l	4/21/2017 12:01	200.7	JGB
Nitrogen, Ammonia	461			2.40	12	mg/l	4/25/2017 9:30	350.2	JGB
Biochemical Oxygen Demand	2250			1.00	1	mg/l	4/20/2017 15:00	405.1	JGB
Oil & Grease, Total	14.6			3.00	1	mg/l	4/21/2017 8:15	1664	JML
Suspended Solids, Total	37.0			1.00	1	mg/l	4/20/2017 14:20	2540D	JGB

<b>Qualifiers:</b>	* Value exceeds permit limit.	A Recoveries affected by interferences/high background
	BDL Below Detection Limit	C Value is below Minimum Compound Limit.
	E Value above quantitation range	F Sample dilution caused poor/no surrogate recovery
	H Holding times for preparation or analysis exceeded	PQL Practical Quantitation Limit
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1704121-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** BI Monthly Leachate  
**Collection Date:** 04/26/17 14:12  
**Sampled By:**

**PO No:**  
**WO No:** 1704121  
**Project No:**  
**Facility ID No:**  
**Date Received:** 04/27/17 12:30  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.03				1	pH Units	4/26/2017 14:12	150.1	JGB
<b>METALS</b>									
Arsenic	0.0755			0.0250	1	mg/l	4/28/2017 12:29	200.7	JGB
Lead	BDL			0.0130	1	mg/l	4/28/2017 12:29	200.7	JGB
Zinc	0.102			0.0100	1	mg/l	4/28/2017 12:29	200.7	JGB
Nitrogen, Ammonia	41.4			2.40	12	mg/l	5/1/2017 13:00	350.2	JGB
Biochemical Oxygen Demand	469			1.00	1	mg/l	4/27/2017 15:00	405.1	JGB
Oil & Grease, Total	10.1			3.00	1	mg/l	4/28/2017 13:00	1664	JML
Suspended Solids, Total	30.0			1.00	1	mg/l	4/27/2017 15:40	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit. A Recoveries affected by interferences/high background  
 BDL Below Detection Limit C Value is below Minimum Compound Limit.  
 E Value above quantitation range F Sample dilution caused poor/no surrogate recovery  
 H Holding times for preparation or analysis exceeded PQL Practical Quantitation Limit  
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits





**Client:** Waste Connections  
**Lab ID:** 1705082-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 05/15/17 14:13  
**Sampled By:**

**PO No:**  
**WO No:** 1705082  
**Project No:**  
**Facility ID No:**  
**Date Received:** 05/16/17 11:20  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.33				1	pH Units	5/15/2017 14:13	150.1	JGB
<b>METALS</b>									
Arsenic	0.0890			0.0250	1	mg/l	5/24/2017 14:58	200.7	JGB
Lead	BDL			0.0130	1	mg/l	5/24/2017 14:58	200.7	JGB
Zinc	0.0750			0.0100	1	mg/l	5/24/2017 14:58	200.7	JGB
Nitrogen, Ammonia	588			2.40	12	mg/l	5/19/2017 9:00	350.2	JGB
Biochemical Oxygen Demand	452			1.00	1	mg/l	5/16/2017 15:00	405.1	JGB
Oil & Grease, Total	9.70			3.00	1	mg/l	5/17/2017 9:45	1664	JML
Suspended Solids, Total	27.0			1.00	1	mg/l	5/19/2017 9:15	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1705119-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 05/24/17 14:24  
**Sampled By:**

**PO No:**  
**WO No:** 1705119  
**Project No:**  
**Facility ID No:**  
**Date Received:** 05/25/17 12:15  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.43				1	pH Units	5/24/2017 14:24	150.1	JGB
<b>METALS</b>									
Arsenic	0.0960			0.0250	1	mg/l	6/2/2017 8:33	200.7	JGB
Lead	BDL			0.0130	1	mg/l	6/2/2017 8:33	200.7	JGB
Zinc	0.0440			0.0100	1	mg/l	6/2/2017 8:33	200.7	JGB
Nitrogen, Ammonia	544			2.40	12	mg/l	5/30/2017 14:00	350.2	JGB
Biochemical Oxygen Demand	1420			1.00	1	mg/l	5/25/2017 15:00	405.1	JGB
Oil & Grease, Total	17.5			3.00	1	mg/l	6/2/2017 8:30	1664	JML
Suspended Solids, Total	37.0			1.00	1	mg/l	5/30/2017 9:45	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1706086-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 06/14/17 13:30  
**Sampled By:**

**PO No:**  
**WO No:** 1706086  
**Project No:**  
**Facility ID No:**  
**Date Received:** 06/15/17 12:10  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.07				1	pH Units	6/14/2017 13:30	150.1	JGB
<b>METALS</b>									
Zinc	0.0450			0.0100	1	mg/l	6/26/2017 9:30	200.7	JGB
Nitrogen, Ammonia	439			2.40	12	mg/l	6/16/2017 9:22	350.2	JGB
Biochemical Oxygen Demand	1210			1.00	1	mg/l	6/15/2017 15:12	405.1	JGB
Oil & Grease, Total	10.7			3.00	1	mg/l	6/16/2017 14:19	1664	JML
Suspended Solids, Total	42.0			1.00	1	mg/l	6/19/2017 9:10	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1706124-001  
**Project:** Bi Monthly  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 06/27/17 14:50  
**Sampled By:**

**PO No:**  
**WO No:** 1706124  
**Project No:**  
**Facility ID No:**  
**Date Received:** 06/28/17 12:10  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.24				1	pH Units	6/27/2017 14:50	150.1	JGB
<b>METALS</b>									
Arsenic	0.0990			0.0250	1	mg/l	6/29/2017 10:00	200.7	JGB
Lead	BDL			0.0130	1	mg/l	6/29/2017 10:00	200.7	JGB
Zinc	0.0384			0.0100	1	mg/l	6/29/2017 10:00	200.7	JGB
Nitrogen, Ammonia	632			2.40	12	mg/l	7/3/2017 9:32	350.2	JGB
Biochemical Oxygen Demand	52.0			1.00	1	mg/l	6/28/2017 15:00	405.1	JGB
Oil & Grease, Total	4.80			3.00	1	mg/l	7/11/2017 10:45	1664	JML
Suspended Solids, Total	43.0			1.00	1	mg/l	6/29/2017 13:00	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
BDL Below Detection Limit  
E Value above quantitation range  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
C Value is below Minimum Compound Limit.  
F Sample dilution caused poor/no surrogate recovery  
PQL Practical Quantitation Limit  
S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1707069-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 07/13/17 14:00  
**Sampled By:**

**PO No:**  
**WO No:** 1707069  
**Project No:**  
**Facility ID No:**  
**Date Received:** 07/14/17 9:10  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.96				1	pH Units	7/13/2017 14:00	150.1	JGB
<b>METALS</b>									
Arsenic	0.0804			0.0250	1	mg/l	7/25/2017 8:36	200.7	JGB
Lead	BDL			0.0130	1	mg/l	7/25/2017 8:36	200.7	JGB
Zinc	0.0260			0.0100	1	mg/l	7/25/2017 8:36	200.7	JGB
Nitrogen, Ammonia	467			2.40	12	mg/l	7/19/2017 14:00	350.2	JGB
Biochemical Oxygen Demand	16.0			1.00	1	mg/l	7/14/2017 15:00	405.1	JGB
Oil & Grease, Total	9.30			3.00	1	mg/l	7/22/2017 17:30	1664	JML
Suspended Solids, Total	105			1.00	1	mg/l	7/20/2017 9:00	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1707116-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 07/24/17 14:01  
**Sampled By:**

**PO No:**  
**WO No:** 1707116  
**Project No:**  
**Facility ID No:**  
**Date Received:** 07/25/17 12:05  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.04				1	pH Units	7/24/2017 14:01	150.1	JGB
<b>METALS</b>									
Arsenic	0.104			0.0250	1	mg/l	7/28/2017 13:05	200.7	JGB
Lead	BDL			0.0130	1	mg/l	7/28/2017 13:05	200.7	JGB
Zinc	0.0583			0.0100	1	mg/l	7/28/2017 13:05	200.7	JGB
Nitrogen, Ammonia	376			2.40	12	mg/l	7/27/2017 9:00	350.2	JGB
Biochemical Oxygen Demand	34.0			1.00	1	mg/l	7/26/2017 15:00	405.1	JGB
Oil & Grease, Total	6.80			3.00	1	mg/l	7/28/2017 10:00	1664	JML
Suspended Solids, Total	30.0			1.00	1	mg/l	7/27/2017 10:00	2540D	JGB

**Qualifiers:**

- \* Value exceeds permit limit.
- BDL Below Detection Limit
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

- A Recoveries affected by interferences/high background
- C Value is below Minimum Compound Limit.
- F Sample dilution caused poor/no surrogate recovery
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1708074-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 08/14/17 15:00  
**Sampled By:**

**PO No:**  
**WO No:** 1708074  
**Project No:**  
**Facility ID No:**  
**Date Received:** 08/15/17 11:45  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.30				1	pH Units	8/14/2017 15:00	150.1	JGB
<b>METALS</b>									
Arsenic	0.103			0.0250	1	mg/l	8/21/2017 12:59	200.7	JGB
Lead	BDL			0.0130	1	mg/l	8/21/2017 12:59	200.7	JGB
Zinc	0.0788			0.0100	1	mg/l	8/21/2017 12:59	200.7	JGB
Nitrogen, Ammonia	282			2.40	12	mg/l	8/21/2017 8:31	350.2	JGB
Biochemical Oxygen Demand	374			1.00	1	mg/l	8/16/2017 15:00	405.1	JGB
Oil & Grease, Total	9.20			3.00	1	mg/l	8/20/2017 17:00	1664	JML
Suspended Solids, Total	112			1.00	1	mg/l	8/21/2017 16:20	2540D	JGB

<b>Qualifiers:</b>	* Value exceeds permit limit.	A Recoveries affected by interferences/high background
	BDL Below Detection Limit	C Value is below Minimum Compound Limit.
	E Value above quantitation range	F Sample dilution caused poor/no surrogate recovery
	H Holding times for preparation or analysis exceeded	PQL Practical Quantitation Limit
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1709003-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 08/30/17 11:30  
**Sampled By:**

**PO No:**  
**WO No:** 1709003  
**Project No:**  
**Facility ID No:**  
**Date Received:** 08/31/17 0:00  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.42				1	pH Units	8/30/2017 11:30	150.1	JGB
<b>METALS</b>									
Arsenic	0.106			0.0250	1	mg/l	9/11/2017 10:00	200.7	JGB
Lead	BDL			0.0130	1	mg/l	9/11/2017 10:00	200.7	JGB
Zinc	0.0306			0.0100	1	mg/l	9/11/2017 10:00	200.7	JGB
Nitrogen, Ammonia	362			2.40	12	mg/l	8/31/2017 14:40	350.2	JGB
Biochemical Oxygen Demand	350			1.00	1	mg/l	8/31/2017 15:00	405.1	JGB
Oil & Grease, Total	5.50			3.00	1	mg/l	9/1/2017 10:00	1664	JML
Suspended Solids, Total	44.0			1.00	1	mg/l	9/1/2017 9:18	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
BDL Below Detection Limit  
E Value above quantitation range  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
C Value is below Minimum Compound Limit.  
F Sample dilution caused poor/no surrogate recovery  
PQL Practical Quantitation Limit  
S Spike Recovery outside accepted recovery limits





# EDL Labs, Inc.

## Report of Analytical Results

**Client:** Waste Connections  
**Lab ID:** 1709075-001  
**Project:** 3 Rivers Landfill/Re-Sample  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 09/18/17 9:00  
**Sampled By:**

**PO No:**  
**WO No:** 1709075  
**Project No:**  
**Facility ID No:**  
**Date Received:** 09/19/17 10:35  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.36				1	pH Units	9/18/2017 9:00	150.1	JGB
Biochemical Oxygen Demand	1050			1.00	1	mg/l	9/20/2017 15:00	405.1	JGB
Suspended Solids, Total	59.0			1.00	1	mg/l	9/21/2017 13:50	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1709090-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 09/25/17 14:10  
**Sampled By:**

**PO No:**  
**WO No:** 1709090  
**Project No:**  
**Facility ID No:**  
**Date Received:** 09/26/17 11:20  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.38				1	pH Units	9/25/2017 14:10	150.1	JGB
<b>METALS</b>									
Arsenic	0.118			0.0250	1	mg/l	9/29/2017 9:12	200.7	JGB
Lead	BDL			0.0130	1	mg/l	9/29/2017 9:12	200.7	JGB
Zinc	0.0395			0.0100	1	mg/l	9/29/2017 9:12	200.7	JGB
Nitrogen, Ammonia	611			2.40	12	mg/l	9/28/2017 10:00	350.2	JGB
Biochemical Oxygen Demand	BDL			1.00	1	mg/l	9/27/2017 15:06	405.1	JGB
Oil & Grease, Total	9.70			3.00	1	mg/l	10/2/2017 14:40	1664	JML
Suspended Solids, Total	41.0			1.00	1	mg/l	9/29/2017 10:55	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1710083-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 10/17/17 10:10  
**Sampled By:**

**PO No:**  
**WO No:** 1710083  
**Project No:**  
**Facility ID No:**  
**Date Received:** 10/18/17 9:30  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.98				1	pH Units	10/17/2017 10:10	150.1	JGB
<b>METALS</b>									
Arsenic	0.106			0.0250	1	mg/l	10/24/2017 9:44	200.7	JGB
Lead	BDL			0.0130	1	mg/l	10/24/2017 9:44	200.7	JGB
Zinc	0.0918			0.0100	1	mg/l	10/24/2017 9:44	200.7	JGB
Nitrogen, Ammonia	432			2.40	12	mg/l	10/19/2017 9:13	350.2	JGB
Biochemical Oxygen Demand	319			1.00	1	mg/l	10/18/2017 15:00	405.1	JGB
Oil & Grease, Total	6.80			3.00	1	mg/l	10/23/2017 11:45	1664	JML
Suspended Solids, Total	73.0			1.00	1	mg/l	10/19/2017 13:00	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1711012-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:**  
**Sampled By:**

**PO No:**  
**WO No:** 1711012  
**Project No:**  
**Facility ID No:**  
**Date Received:** 10/31/17 11:15  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.14				1	pH Units	11/1/2017 0:00	150.1	JGB
<b>METALS</b>									
Arsenic	0.0997			0.0250	1	mg/l	11/3/2017 10:29	200.7	JGB
Lead	BDL			0.0130	1	mg/l	11/3/2017 10:29	200.7	JGB
Zinc	0.0356			0.0100	1	mg/l	11/3/2017 10:29	200.7	JGB
Nitrogen, Ammonia	483			2.40	12	mg/l	11/1/2017 9:20	350.2	JGB
Biochemical Oxygen Demand	244			1.00	1	mg/l	11/1/2017 15:00	405.1	JGB
Oil & Grease, Total	6.70			3.00	1	mg/l	11/2/2017 9:30	1664	JML
Suspended Solids, Total	28.0			1.00	1	mg/l	11/2/2017 10:42	2540D	JGB

**Qualifiers:**

- \* Value exceeds permit limit.
- BDL Below Detection Limit
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

- A Recoveries affected by interferences/high background
- C Value is below Minimum Compound Limit.
- F Sample dilution caused poor/no surrogate recovery
- PQL Practical Quantitation Limit
- S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1711083-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 11/15/17 14:00  
**Sampled By:**

**PO No:**  
**WO No:** 1711083  
**Project No:**  
**Facility ID No:**  
**Date Received:** 11/16/17 10:42  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.06				1	pH Units	11/15/2017 2:00	150.1	JGB
<b>METALS</b>									
Arsenic	0.0877			0.0250	1	mg/l	11/20/2017 9:30	200.7	JGB
Lead	BDL			0.0130	1	mg/l	11/20/2017 9:30	200.7	JGB
Zinc	0.0388			0.0100	1	mg/l	11/20/2017 9:30	200.7	JGB
Nitrogen, Ammonia	796			2.40	12	mg/l	11/16/2017 10:50	350.2	JGB
Biochemical Oxygen Demand	707			1.00	1	mg/l	11/16/2017 15:00	405.1	JGB
Oil & Grease, Total	5.80			3.00	1	mg/l	11/20/2017 9:00	1664	JML
Suspended Solids, Total	47.0			1.00	1	mg/l	11/22/2017 9:45	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
BDL Below Detection Limit  
E Value above quantitation range  
H Holding times for preparation or analysis exceeded  
R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
C Value is below Minimum Compound Limit.  
F Sample dilution caused poor/no surrogate recovery  
PQL Practical Quantitation Limit  
S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1712003-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 11/29/17 14:05  
**Sampled By:**

**PO No:**  
**WO No:** 1712003  
**Project No:**  
**Facility ID No:**  
**Date Received:** 11/30/17 14:50  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	8.02				1	pH Units	11/29/2017 14:53	150.1	JGB
<b>METALS</b>									
Arsenic	0.0997			0.0250	1	mg/l	12/6/2017 8:50	200.7	JGB
Lead	BDL			0.0130	1	mg/l	12/6/2017 8:50	200.7	JGB
Zinc	0.0552			0.0100	1	mg/l	12/6/2017 8:50	200.7	JGB
Nitrogen, Ammonia	741			2.40	12	mg/l	12/1/2017 14:52	350.2	JGB
Biochemical Oxygen Demand	1180			1.00	1	mg/l	11/30/2017 15:00	405.1	JGB
Oil & Grease, Total	4.30			3.00	1	mg/l	12/14/2017 12:00	1664	JML
Suspended Solids, Total	33.0			1.00	1	mg/l	12/4/2017 9:20	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1712063-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 12/14/17 14:15  
**Sampled By:**

**PO No:**  
**WO No:** 1712063  
**Project No:**  
**Facility ID No:**  
**Date Received:** 12/15/17 11:52  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.98				1	pH Units	12/14/2017 14:15	150.1	JGB
<b>METALS</b>									
Arsenic	0.118			0.0250	1	mg/l	12/19/2017 8:00	200.7	JGB
Lead	BDL			0.0130	1	mg/l	12/19/2017 8:00	200.7	JGB
Zinc	0.0654			0.0100	1	mg/l	12/19/2017 8:00	200.7	JGB
Nitrogen, Ammonia	576			5.00	25	mg/l	12/20/2017 9:17	350.2	JGB
Biochemical Oxygen Demand	415			1.00	1	mg/l	12/15/2017 15:15	405.1	JGB
Oil & Grease, Total	6.40			3.00	1	mg/l	12/23/2017 11:00	1664	JML
Suspended Solids, Total	80.0			1.00	1	mg/l	12/19/2017 9:10	2540D	JGB

<b>Qualifiers:</b>	* Value exceeds permit limit.	A Recoveries affected by interferences/high background
	BDL Below Detection Limit	C Value is below Minimum Compound Limit.
	E Value above quantitation range	F Sample dilution caused poor/no surrogate recovery
	H Holding times for preparation or analysis exceeded	PQL Practical Quantitation Limit
	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1712109-001  
**Project:** 3 Rivers Landfill  
**Client Sample ID:** Bi Monthly Leachate  
**Collection Date:** 12/20/17 10:45  
**Sampled By:**

**PO No:**  
**WO No:** 1712109  
**Project No:**  
**Facility ID No:**  
**Date Received:** 12/21/17 15:55  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
pH	7.90				1	pH Units	12/20/2017 10:45	150.1	JGB
<b>METALS</b>									
Arsenic	0.0988			0.0250	1	mg/l	12/30/2017 7:27	200.7	JGB
Lead	BDL			0.0130	1	mg/l	12/30/2017 7:27	200.7	JGB
Zinc	0.0591			0.0100	1	mg/l	12/30/2017 7:27	200.7	JGB
Nitrogen, Ammonia	698			2.40	12	mg/l	12/28/2017 8:00	350.2	JGB
Biochemical Oxygen Demand	927			1.00	1	mg/l	12/22/2017 15:39	405.1	JGB
Oil & Grease, Total	7.20			3.00	1	mg/l	12/27/2017 10:00	1664	JML
Suspended Solids, Total	65.0			1.00	1	mg/l	12/22/2017 8:58	2540D	JGB

**Qualifiers:** \* Value exceeds permit limit. A Recoveries affected by interferences/high background  
 BDL Below Detection Limit C Value is below Minimum Compound Limit.  
 E Value above quantitation range F Sample dilution caused poor/no surrogate recovery  
 H Holding times for preparation or analysis exceeded PQL Practical Quantitation Limit  
 R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits





**Client:** Waste Connections  
**Lab ID:** 1701062-001  
**Project:** 3 Rivers Annual Priority Pollutants  
**Client Sample ID:** Annual Leachate Priority Pollutants  
**Collection Date:** 01/11/17 14:00  
**Sampled By:**

**PO No:**  
**WO No:** 1701062  
**Project No:**  
**Facility ID No:**  
**Date Received:** 01/12/17 11:20  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
<b>SEMI-VOLATILE ORGANICS</b>									
1,2,4-Trichlorobenzene	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
1,2-Dichlorobenzene	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
1,3-Dichlorobenzene	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
1,4-Dichlorobenzene	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
2,2'-oxybis(1-chloropropane)	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
2,4,6-Trichlorophenol	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
2,4-Dichlorophenol	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
2,4-Dimethylphenol	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
2,4-Dinitrophenol	BDL			0.300	20	mg/l	1/13/2017 12:17	625	JFL
2,4-Dinitrotoluene	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
2,6-Dinitrotoluene	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
2-Chloronaphthalene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
2-Chlorophenol	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
2-Nitrophenol	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
3,3'-Dichlorobenzidine	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
4,6-Dinitro-2-methylphenol	BDL			0.150	20	mg/l	1/13/2017 12:17	625	JFL
4-Bromophenyl phenyl ether	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
4-Chloro-3-methylphenol	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
4-Chlorophenyl phenyl ether	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
4-Nitrophenol	BDL			0.150	20	mg/l	1/13/2017 12:17	625	JFL
Acenaphthene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Acenaphthylene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Anthracene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Benz(a)anthracene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Benzidine	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
Benzo(a)pyrene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Benzo(b)fluoranthene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Benzo(g,h,i)perylene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Benzo(k)fluoranthene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Benzyl butyl phthalate	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
Bis(2-chloroethoxy)methane	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
Bis(2-chloroethyl) ether	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
Bis(2-ethylhexyl) phthalate	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
Chrysene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Dibenz(a,h)anthracene	BDL			0.0150	20	mg/l	1/13/2017 12:17	625	JFL
Diethyl phthalate	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL
Dimethyl phthalate	BDL			0.0300	20	mg/l	1/13/2017 12:17	625	JFL

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery.  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



Client: Waste Connections
Lab ID: 1701062-001
Project: 3 Rivers Annual Priority Pollutants
Client Sample ID: Annual Leachate Priority Pollutants
Collection Date: 01/11/17 14:00
Sampled By:

PO No:
WO No: 1701062
Project No:
Facility ID No:
Date Received: 01/12/17 11:20
Matrix: AQUEOUS

Table with columns: Parameter, Result, Limits, Qual, PQL, DF, Units, Analysis Date/Time, Method, Analyst. Includes sections for SEMI-VOLATILE ORGANICS, POLYCHLORINATED BIPHENYLS (PCBS), and ORGANOCHLORINE PESTICIDES.

Qualifiers: \* Value exceeds permit limit. BDL Below Detection Limit. E Value above quantitation range. H Holding times for preparation or analysis exceeded. R RPD outside accepted recovery limits. A Recoveries affected by interferences/high background. C Value is below Minimum Compound Limit. F Sample dilution caused poor/no surrogate recovery. PQL Practical Quantitation Limit. S Spike Recovery outside accepted recovery limits.



**Client:** Waste Connections  
**Lab ID:** 1701062-001  
**Project:** 3 Rivers Annual Priority Pollutants  
**Client Sample ID:** Annual Leachate Priority Pollutants  
**Collection Date:** 01/11/17 14:00  
**Sampled By:**

**PO No:**  
**WO No:** 1701062  
**Project No:**  
**Facility ID No:**  
**Date Received:** 01/12/17 11:20  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
<b>ORGANOCHLORINE PESTICIDES</b>									
4,4'-DDE	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
4,4'-DDT	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Aldrin	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
alpha-BHC	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
beta-BHC	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Chlordane, total	BDL			3.0	20	µg/l	1/18/2017 11:04	608	JFL
delta-BHC	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Dieldrin	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Endosulfan I	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Endosulfan II	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Endosulfan sulfate	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Endrin	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Endrin aldehyde	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
gamma-BHC	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Heptachlor	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Heptachlor epoxide	BDL			0.30	20	µg/l	1/18/2017 11:04	608	JFL
Toxaphene	BDL			6.0	20	µg/l	1/18/2017 11:04	608	JFL
Surr: Decachlorobiphenyl	0		SF	10 - 150	20	%Rec	1/18/2017 11:04	608	JFL
Surr: Tetrachloro-m-xylene	0		SF	10 - 150	20	%Rec	1/18/2017 11:04	608	JFL
<b>VOLATILE ORGANICS</b>									
1,1,1-Trichloroethane	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
1,1,2,2-Tetrachloroethane	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
1,1,2-Trichloroethane	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
1,2-Dichlorobenzene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
1,2-Dichloroethane	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
1,2-Dichloropropane	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
1,3-Dichlorobenzene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
1,3-Dichloropropylene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
1,4-Dichlorobenzene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Acrolein	BDL			10.0	1	µg/l	1/22/2017 13:24	624	JFL
Acrylonitrile	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Benzene	1.63			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Bromodichloromethane	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Bromoform	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Carbon tetrachloride	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Chlorobenzene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits



**Client:** Waste Connections  
**Lab ID:** 1701062-001  
**Project:** 3 Rivers Annual Priority Pollutants  
**Client Sample ID:** Annual Leachate Priority Pollutants  
**Collection Date:** 01/11/17 14:00  
**Sampled By:**

**PO No:**  
**WO No:** 1701062  
**Project No:**  
**Facility ID No:**  
**Date Received:** 01/12/17 11:20  
**Matrix:** AQUEOUS

Parameter	Result	Limits	Qual	PQL	DF	Units	Analysis Date/Time	Method	Analyst
<b>VOLATILE ORGANICS</b>									
Chloroethane	BDL			5.00	1	µg/l	1/22/2017 13:24	624	JFL
Chloroform	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
cis-1,3-Dichloropropene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Dibromochloromethane	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Ethylbenzene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Isopropylbenzene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Methylene chloride	BDL			10.0	1	µg/l	1/22/2017 13:24	624	JFL
Tetrachloroethene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Toluene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
trans-1,2-Dichloroethene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
trans-1,3-Dichloropropene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Trichloroethene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Trichlorofluoromethane	BDL			5.00	1	µg/l	1/22/2017 13:24	624	JFL
Dichlorodifluoromethane	BDL			5.00	1	µg/l	1/22/2017 13:24	624	JFL
Chloromethane	BDL			5.00	1	µg/l	1/22/2017 13:24	624	JFL
Vinyl chloride	BDL			5.00	1	µg/l	1/22/2017 13:24	624	JFL
Bromomethane	BDL			5.00	1	µg/l	1/22/2017 13:24	624	JFL
1,1-Dichloroethene	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
1,1-Dichloroethane	BDL			1.00	1	µg/l	1/22/2017 13:24	624	JFL
Surr: 1,2-Dichloroethane-d4	104			80 - 120	1	%Rec	1/22/2017 13:24	624	JFL
Surr: Dibromofluoromethane	105			80 - 120	1	%Rec	1/22/2017 13:24	624	JFL
Surr: Toluene-d8	96.0			80 - 120	1	%Rec	1/22/2017 13:24	624	JFL
Surr: 4-Bromofluorobenzene	96.8			80 - 120	1	%Rec	1/22/2017 13:24	624	JFL

**Qualifiers:** \* Value exceeds permit limit.  
 BDL Below Detection Limit  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits

A Recoveries affected by interferences/high background  
 C Value is below Minimum Compound Limit.  
 F Sample dilution caused poor/no surrogate recovery  
 PQL Practical Quantitation Limit  
 S Spike Recovery outside accepted recovery limits

# **Attachment B**

**Leachate Recirculation  
Approval Letter from MDEQ**

Leachate Recirculation  
Approval Letter from MDEQ



STATE OF MISSISSIPPI  
DAVID RONALD MUSOROVE, GOVERNOR  
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY  
CHARLES H. CHISOLM, EXECUTIVE DIRECTOR

April 17, 2003

Mr. Bill Perry  
Three Rivers Solid Waste Management Authority  
1904 Pontotoc Parkway West  
Pontotoc, Mississippi 38863

Dear Mr. Perry

Re: Three Rivers Solid Waste Management Authority,  
Three Rivers Regional Landfill  
Pontotoc County  
Solid Waste Ref. No. SW058001427  
Leachate Recirculation Project

The Mississippi Department of Environmental Quality (Department) authorizes Three Rivers Solid Waste Management Authority to implement the Leachate Recirculation Project submitted to the Department on March 5, 2003. The Department retains the authority to order the leachate recirculation project be discontinued if it is proven the project causes an adverse environmental impact or causes any nuisance conditions to surrounding property owners. Please note the following requirements not addressed in the March 5, 2003 submittal:

1. All excavations shall maintain a minimum 50 feet from the crest of the perimeter or intermediate side slopes.
2. Leachate will be pumped directly from the sumps for recirculation, and no liquids other than leachate generated at the Three Rivers Landfill will be recirculated at this facility. Equipment washwater must be collected and disposed in accordance with pretreatment permit MSP090943.
3. Record all leachate recirculation occurrences, including date of occurrence and amount of leachate recirculated.

1421 PER20010001

If you have any questions regarding the authorization of the Leachate Recirculation project, please contact me at (601) 961-5719.

Sincerely,



Krista DuBois  
Solid Waste and Mining, EPD

cc: Derek Hodnett, Santek Environmental of Mississippi, LLC  
Chris Sanders, ECED

# **Attachment C**

## **NPDES Permit Limits**



# EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

## NPDES Permit Limits

**Subject Item:** Outfall 001A (Process water discharged to Oxford POTW)  
 RPNT0000000001: MSP090943-001A

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	Report Monthly Average	Report Monthly Maximum	pounds per day	*****	Report Monthly Average	Report Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Flow Effluent</i>	Report Monthly Average	0.028 Monthly Maximum	Million Gallons per Day	*****	*****	*****	*****	On Each Occasion	Batch	Jan-Dec
<i>Oil and grease Effluent</i>	17.5 Monthly Average	23.4 Monthly Maximum	pounds per day	*****	*****	*****	*****	Twice per Month	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	467 Monthly Average	817 Monthly Maximum	pounds per day	*****	2000 Monthly Average	3500 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Weekly	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	467 Monthly Average	817 Monthly Maximum	pounds per day	*****	2000 Monthly Average	3500 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Zinc (Total Recoverable) Effluent</i>	*****	*****	*****	*****	Report Monthly Average	Report Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Outfall 002 (Process water discharged to Pontotoc POTW)  
 RPNT0000000002: MSP090943-002

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations							Monitoring Requirements		
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	Report Monthly Average	40 Monthly Maximum	pounds per day	*****	Report Monthly Average	180 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Copper (Total Recoverable) Effluent</i>	*****	*****	*****	*****	0.005 Monthly Average	0.007 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Flow Effluent</i>	Report Monthly Average	0.028 Monthly Maximum	Million Gallons per Day	*****	*****	*****	*****	On Each Occasion	Batch	Jan-Dec
<i>Nickel (Total Rec overable) Effluent</i>	Report Monthly Average	Report Monthly Maximum	pounds per day	*****	Report Monthly Average	0.10 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Oil and grease Effluent</i>	Report Monthly Average	10 Monthly Maximum	pounds per day	*****	Report Monthly Average	Report Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	Report Monthly Average	47.5 Monthly Maximum	pounds per day	*****	Report Monthly Average	220 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Weekly	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	Report Monthly Average	47.5 Monthly Maximum	pounds per day	*****	Report Monthly Average	220 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Outfall 001B (Process water discharged to Oxford POTW)  
 RPN0000000009: MSP090943-001B

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Arsenic (Total Recoverable) Effluent</i>	*****	*****	*****	*****	0.15 Annual Average	0.38 Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Lead (Total Recoverable) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec

# **Attachment D**

**Solidification Basin Approval**

**Letter from MDEQ**

**Solidification Basin Approval  
Letter from MDEQ**



**STATE OF MISSISSIPPI**

HALEY BARBOUR  
GOVERNOR

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

TRUDY D. FISHER, EXECUTIVE DIRECTOR

October 26, 2011

Mr. Rick Faucette  
Chairman  
Three Rivers Solid Waste Management Authority  
PO Box 690  
Pontotoc, MS 38863

Dear Mr. Faucette:

Re: Three Rivers Regional Landfill  
Solidification Basin Approval  
Solid Waste Ref. No. SW0580010427  
Pontotoc County

The Department has received a request on May 10, 2011 from Terracon Consultants on your behalf for the approval of the installation and operation of a solidification operation within the existing boundaries of the Three Rivers Regional Landfill. The Department approves this minor modification request as submitted with the additional stipulations:

1. The current plan of operation will be updated and submitted to the Department to reflect the addition of the solidification operation,
2. Techniques will be implemented to minimize the egress of solidification media from the solidification basin. Any excess solidification media outside of the solidification operation will be promptly recovered and properly disposed.
3. The solidification operation will remain within the currently permitted boundaries of the landfill disposal area.
4. As specified in the request, extremely odorous liquid waste will be treated with lime or other suppressing additives to minimize offsite odors.

Implementation and operation of the solidification basin may begin at your discretion. Should you have any questions or comments, please contact me at (601) 961-5117.

Sincerely,

A handwritten signature in cursive script that reads "Lynn Chambers".

Lynn Chambers  
Mining and Solid Waste Management Branch  
Environmental Permits Division

1421 PER20090002

OFFICE OF POLLUTION CONTROL

POST OFFICE BOX 2261 • JACKSON, MISSISSIPPI 39225-2261 • TEL: (601) 961-5171 • FAX: (601) 354-6612 • [www.deq.state.ms.us](http://www.deq.state.ms.us)

AN EQUAL OPPORTUNITY EMPLOYER



April 29, 2011

Mr. Billy Warden, P.E.  
Mississippi Department of Environmental Quality  
515 East Amite Street  
Jackson, Mississippi 39201  
PH: (601) 961-5171

**RE: Waste Solidification Operation  
Three Rivers Regional Landfill – Permit # SW0580010427  
Pontotoc, MS**

Dear Mr. Warden:

Waste Connections, Inc. has requested to add to their current plan of operation a waste solidification operation. This would allow the acceptance of nonhazardous bulk liquid wastes for solidification at Three Rivers Regional Landfill. The solidification operation will consist of forty cubic yard box containers, or similar containers, placed in an active cell as shown in Figure 1. The system will be operated and constructed in such a manner as to prevent liquid wastes from entering the disposal area or from flowing freely off the site.

Each 40 cubic yard roll off box (or similar container) will have the gate welded shut to prevent leakage. At a minimum 10 feet of separation shall be kept between the landfill base liner and the bottom of each temporary solidification unit. Each unit shall be buried in waste to 2 feet from the top. The temporary solidification units will be transported to each phase by lifting, not dragging each box and carrying it to the next stage during transportation. Solidification agents are to be used in the solidification process and are to be mixed thoroughly with the liquid waste using a backhoe or similar equipment. Solidification media will include kiln dust, cotton seed waste, Automobile shredder fluff from hammer mill operation, rice hulls, dried paper pulp sludge, feather/textile by-product from pillows and down comforter assembly, astro-gel and saw dust.

Any spillage of liquid waste will be cleaned up immediately. The basin will remain covered when it is not in use. All liquid waste accepted for solidification will be nonhazardous waste. A record of each waste stream solidified will be kept on file at the site. This record will include the name of each waste, the generator, the process from which the waste was generated, and the documentation that the waste was characterized as a solid under the paint filter liquids test.

If deemed necessary, extremely odorous liquid waste may be treated with lime or other suppressing additives to insure offsite odors do not occur. All solidified waste will be characterized as a solid by Method 9095 (Paint Filter Liquids Test) prior to removal from the basin. The solidification basin will be monitored periodically by Three Rivers Regional Landfill personnel to determine if punctures, leaks, or other performance-affecting damage has occurred



**Waste Solidification Operation**

Three Rivers Regional Landfill – Permit # SW0580010427

Pontotoc, MS

April 29, 2011

**Terracon**

to the basin. Each unit shall be visually inspected for cracks, leaks, and weld deficiencies. In the event damages are discovered, use of the basin shall be discontinued until such time that sufficient repairs are made.

We appreciate your prompt effort in reviewing this modification request. If you have any questions, please contact me at (423) 499-6111.

Sincerely,  
**Terracon Consultants, Inc.**

C. Rob Witcher, P.E.  
Project Engineer



**NOTES:**

- EXISTING TOPOGRAPHY SHOWN ON THIS DRAWING WAS COMPILED BY SOUTHERN RESOURCES MAPPING CORPORATION USING PHOTOGRAMMETRIC METHODS BASED ON AERIAL PHOTOGRAPHY PERFORMED ON DECEMBER 6, 2010.
- THE COORDINATE GRID AND SURVEY CONTROL MONUMENT LOCATIONS SHOWN ON THIS DRAWING ARE BASED ON MISSISSIPPI STATE PLANE COORDINATE SYSTEM MAD 1983. ELEVATIONS ARE SHOWN IN FEET ABOVE NOS MEAN SEA LEVEL.
- THE SOLIDIFICATION BASIN MAY BE RELOCATED WITHIN THE PERMITTED WASTE BOUNDARY TO FACILITATE THE MOVEMENT OF THE ACTIVE WORKING AREA OF THE LANDFILL.

Project No.	EJ117405
Scale:	AS-SHOWN
File No.	EJ117405
Date:	04/29/2011

Project Mgr:	CRW
Drawn By:	CRW
Checked By:	CWM
Approved By:	CRW

**Terracon**  
 Consulting Engineers and Scientists  
 240 HERITAGE WALK, SUITE 103 WOODSTOCK, GA 30188  
 PH. (770) 924-9799 FAX. (770) 924-7666

**SITE PLAN**  
 WASTE SOLIDIFICATION OPERATION  
 THREE RIVERS REGIONAL LANDFILL  
 WASTE CONNECTIONS, INC.  
 PONTOTOC, MISSISSIPPI

**FIG. NO.**  
 1



# **Attachment E**

## **Current Landfill Site Plan**

# Current Landfill Site Plan

THREE RIVERS SOLID WASTE MANAGEMENT AUTHORITY

**MISC** Mid-South Consulting  
*Quality Engineering Solutions ...*



# **Attachment F**

## **Landfill Permit Documents**

- **Water Well Permit**
- **Solid Waste Permit**
- **Stormwater Permit**
- **Leachate Pretreatment**
- **Title V Operating Permit**



## Water Well Permit

STATE OF MISSISSIPPI

PHIL BRYANT  
GOVERNOR

MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

GARY C. RIKARD, EXECUTIVE DIRECTOR

**Dear Land Owner:**

**Enclosed you will find water-use permit(s) recently issued in your name by the State Permit Board. Please note that a copy of the enclosed permit(s) will also be sent to applicable applicant(s) or actual water user(s) if different from the landowner of record. The enclosed permit(s) supersede all previously issued permit(s) for the indicated diversion or withdrawal point(s).**

**In issuing the enclosed permit(s), the State Permit Board has authorized the holder to divert and/or withdraw the waters of the state for beneficial use from the specified source(s) only in the volume(s) and rate(s) stated. Unless otherwise indicated, permit(s) expire ten (10) years from the date of issuance or reissuance of previously existing permits.**

**If critical conditions should arise regarding the management and continued use of the permitted water resources (ref. Mississippi Code of 1972, as amended, Section 51-3-1, et seq.), the Mississippi Department of Environmental Quality may require that you and other permittees reduce the permitted volume of water being diverted and/or withdrawn or cease pumping completely.**

**If you have any questions regarding your permit(s) applicable statutes or regulations, or the management of water resources in the state, please give me a call at (601) 961-5202.**

Sincerely,

A handwritten signature in cursive script, appearing to read "Lisa A. May".

**Lisa A. May, RPG  
Permitting Branch Chief  
(601) 961-5202**

**cc: applicant (if different from landowner)**

OFFICE OF LAND AND WATER RESOURCES

POST OFFICE BOX 2309 • JACKSON, MISSISSIPPI 39225-2309 • TEL: (601) 961-5200 • FAX: (601) 961-5228 • [www.deq.state.ms.us](http://www.deq.state.ms.us)

AN EQUAL OPPORTUNITY EMPLOYER

**STATE OF MISSISSIPPI**  
**Department of Environmental Quality**  
**Office of Land and Water Resources**  
**P. O. Box 2309**  
**Jackson, Mississippi 39225**

**PERMIT**

**TO DIVERT OR WITHDRAW FOR BENEFICIAL USE THE PUBLIC WATERS**

This permit is issued to the landowner named below in accordance with the provisions of the Mississippi Water Laws, Mississippi Code Sections 51-3-1, et seq. (1972, as amended), and the regulations and standards as promulgated thereunder. Whether or not specifically named in this permit or in the applications for this permit, anyone using water from the diversion/withdrawal point described below shall do so in compliance with the provisions of this permit. Neither this permit, nor any authority conferred hereby, may be sold, conveyed, encumbered, assigned, or otherwise aliened, for any period of time or under any conditions whatsoever. This permit may not be modified, transferred or revoked without prior action by the Permit Board. Any attempts to modify, transfer or revoke this permit, or to take any other action on this permit, shall be invalid and unenforceable and may result in immediate revocation or suspension of this permit. The holder of this permit shall at all times be responsible for adherence to the terms and conditions of this permit. No agreement between the permit holder and any other party shall affect the obligations and liabilities of the permit holder. Water use under this permit is allowed only when the streamflow, lake level elevation, or static groundwater level (whichever, if any, is applicable) is above the established minimum, pursuant to Mississippi Code Section 51-3-7. Authorization is hereby granted to divert/withdraw water for the beneficial use designated herein, and for no other purpose, subject to the following terms, conditions, and limitations:

**Permit Number:** MS-GW-14938

**Landowner Name:** THREE RIVERS SOLID WASTE MANAGEMENT AUTHORITY

**Landowner Address:** 75 SOUTH MAIN STREET  
PONTOTOC MS 38863

**Source Of Water:** RIPLEY AQUIFER

**Beneficial Use:** STANDBY IRRIGATION

**Diversion/Withdrawal Location:** NE 1/4 of the SE 1/4      **Section:** 14    **Township:** 09S    **Range:** 02E

**County:** PONTOTOC

**Quad:** NORTHWEST PONTOTOC

**Maximum Volume:** 0 Acre-Feet/Year      *equivalent to* 0 Million Gallons/Day

**Maximum Rate:** 55 Gallons/Minute

**Applicant Name:** THREE RIVERS SOLID WASTE MANAGEMENT AUTHORITY

**Applicant Address:** 75 SOUTH MAIN STREET  
PONTOTOC MS 38863

**Date Permit Issued:** 03/14/1995

**Date Permit Expires:** 08/03/2025

**Date Permit Modified:**

**Date Permit Re-issued:** 08/03/2015

This permit shall be deemed null and void if construction has not begun within one (1) year of permit issue date

**SPECIAL TERMS AND CONDITIONS:** SEE ATTACHMENT 1, WHICH IS HEREBY DECLARED TO BE PART OF THIS PERMIT.

**SPECIAL TERMS AND CONDITIONS 2:**



Gary C. Rikard, Executive Director  
Mississippi Department of Environmental Quality

**ATTACHMENT 1**  
**SPECIAL TERMS AND CONDITIONS**

**MS-GW-14938**

**Three Rivers Solid Waste Management Authority**

- The above referenced well shall only be used as a back-up water source for uses associated with the landfill operation. Use of the well for other beneficial uses is strictly prohibited. This well is permitted on a Stand-by basis. Before the well may be put in service the Permittee must contact MDEQ in writing requesting a given time period for use of the well and must receive written authorization from MDEQ for that time period.
- The Permittee shall allow the MDEQ staff access to this well for water level measurements upon appropriate notification.
- The Permittee shall collect daily water use (pumpage) data for the well, and shall submit monthly totals by participating in the annual water use survey sent out by OLWR each spring.
- MDEQ maintains the right to place additional restrictions on the use of the reference well in the event the local availability of groundwater for priority beneficial uses, such as drinking water supplies, is determined to be adversely impacted.

July 28, 2015



## Solid Waste Permit

**STATE OF MISSISSIPPI**  
HALEY BARBOUR  
GOVERNOR  
**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**  
TRUDY D. FISHER, EXECUTIVE DIRECTOR

October 25, 2010

CERTIFIED MAIL – 7008 1300 0000 6220 5516

Mr. Rick Faucette  
Chairman  
Three Rivers Solid Waste Management Authority  
PO Box 690  
Pontotoc, MS 38863

Dear Mr. Faucette:

Re: Three Rivers Regional Landfill  
Pontotoc County  
Solid Waste Permit No.SW0580010427

Enclosed please find the environmental permit for which the above referenced action has been taken. Please note the limitations, schedules of compliance, monitoring requirements, and monitoring reporting dates found in this permit.

SW0580010427 is issued in accordance with the provisions of the Mississippi Solid Waste Disposal Act of 1974 (Sections 17-17-1, et seq., Mississippi Code of 1972). Any appeal of this permit action must be made within the 30-day period provided for in Section 49-17-29(4)(b) Mississippi Code of 1972.

Sincerely,

A handwritten signature in cursive script that reads "Lynn Chambers".

Lynn Chambers  
Mining and Solid Waste Management Branch  
Environmental Permits Division

cc: NRO, Jason Bridges ECED

1421 PER20090002

# STATE OF MISSISSIPPI SOLID WASTE MANAGEMENT PERMIT

TO OPERATE A SOLID WASTE MANAGEMENT FACILITY IN  
ACCORDANCE WITH THE REGULATIONS GOVERNING  
SOLID WASTE MANAGEMENT

## THIS CERTIFIES THAT

Three Rivers Solid Waste Management Authority  
has been granted permission to operate a solid waste management facility

located at

Section 14 and 23, Township 9 South, Range 2 East

Pontotoc County

under the name of

Three Rivers Regional Landfill

This permit is issued in accordance with the provisions of the Mississippi Code Annotated, and the regulations and guidelines adopted and promulgated thereunder

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**

  
\_\_\_\_\_  
AUTHORIZED SIGNATURE

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

Issued: October 12, 2010  
Expires: September 30, 2020

Permit No. SW0580010427



## CONDITIONS

### A. EFFECT OF PERMIT

The permittee shall operate the solid waste management facility in accordance with the Mississippi Nonhazardous Waste Management Regulations (state regulations), applicable federal regulations, and conditions of this permit.

### B. PERMIT ACTIONS

This permit may be modified, revoked and reissued, or terminated for noncompliance with the terms and conditions of the permit. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.

### C. SEVERABILITY

The provisions of the permit are severable, and if any provision 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.

### D. DUTIES AND REQUIREMENTS

1. **Duty to Comply.** The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the solid waste law and regulations promulgated thereunder and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application.
2. **Duty to Reapply.** If the permittee wishes to continue an activity allowed by this permit after the expiration date of this permit, the permittee must submit a complete application for a new permit at least 180 days before this permit expires.
3. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize, prevent, or correct any adverse impact on human health or the environment resulting from noncompliance with this permit.
4. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all equipment and systems which are installed or used by the permittee to achieve compliance with the conditions of this permit and application as submitted and approved by the

Department of Environmental Quality (Department).

5. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any relevant information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
6. **Inspection and Entry.** The permittee shall allow an authorized representative of the Department upon the presentation of credentials and other documents as may be required by law to:
  - (a) Enter on the permittee's premises where a regulated activity is located or conducted, or where records must be kept under the conditions of this permit;
  - (b) Have access to and copy at reasonable times any records that must be kept under the conditions of this permit;
  - (c) Inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under this permit;
  - (d) Sample or monitor at reasonable times for the purposes of assuring permit compliance.
7. **Transfer of Permits.** This permit is not transferable to any person except after notice to and approval of the Mississippi Environmental Quality Permit Board. The Permit Board may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.
8. **Signature Requirements.** An application for the re-issuance, modification or transfer of this solid waste management permit and all permits required by this permit or other information requested by the Permit Board shall be signed as follows:
  - a. For a corporation: a president, vice-president, secretary, or treasurer of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation;
  - b. For a partnership or sole proprietorship: a general partner of the proprietor, respectively;
  - c. For a municipality, county, state, federal, or other public agency: a principal executive officer or ranking elected official;

- d. The signature of a Duly Authorized Representative (DAR) shall be a valid signature under the state regulations, in lieu of the signatures described previously provided the following conditions are met:
  1. The DAR is an employee of the entity holding the solid waste management permit.
  2. The DAR is identified to the Department by the ranking officer of the corporation, partnership, proprietorship, municipality, county, state, federal or other public agency.
  3. The DAR is responsible for the overall management of the solid waste facility.
9. **Property Rights.** It is the responsibility of the permittee to possess or acquire a sufficient interest in or right to the use of the property including access route. The issuance of this permit does not convey any property rights or interest in either real or personal property; nor does it authorize any injury to private property, invasion of personal rights, or impairment of previous contract rights; nor any infringement of Federal, State or local laws or regulations.

#### **E. SITE SPECIFIC OPERATING CONDITIONS**

1. The disposal of solid waste shall be restricted to the approved permitted area consisting of approximately 206.9 acres, and shall be within approved elevations.
2. The property line setback distance of no less than 250 feet with adequate on-site screening between the property lines to the disposal areas shall be maintained as approved in the permit application. Adequate visual screening shall be provided in accordance with the Mississippi Nonhazardous Solid Waste Management Regulations (Regulations).
3. Construction of landfill components shall be conducted by qualified and experienced personnel. The Department shall be notified of an approximate construction schedule at least one week prior to liner and final cover construction activities.
4. Construction, operation, closure, and post-closure activities of the facility shall be conducted in accordance with the approved plans, as submitted to the Department.

5. Construction or reconstruction of any unacceptable sidewall or bottom liner of the landfill shall be conducted in accordance with the following, unless an alternate method is approved by the Department:
  - a. The insitu subbase shall be inspected for cracks, large stones, other protrusions, and for soil material which would not be suitable buffer material. Unsuitable materials shall be removed and replaced with suitable buffer material having a permeability equal to or less than  $1 \times 10^{-6}$  cm/sec. The surface shall be compact, smooth, uniform and free of desiccation cracks.
  - b. Prior to placement of the soil liner, the surface of the prepared subbase shall be scarified for proper bonding with the liner. The liner shall be placed in 6 inch lifts, evenly compacted to the density and moisture content required. Placement of the liner on the side slopes shall be in lifts along the slope, not in horizontal lifts. Between lifts, the surface shall be scarified for proper bonding.
  - c. In construction/preparation of the buffer subbase and the soil liner, the surface shall not be allowed to dry out and crack before placement of the next layer. If desiccation cracks do form, the surface shall be rewetted, rehomogenized, and recompacted to the depth of the cracks before placement of the succeeding layer.
  - d. Field density, permeability, moisture content, and thickness tests shall be conducted in accordance with the approved plan in the submitted 2009 permit renewal and modification application. Test holes in the soil shall be sealed with bentonite or another method approved by the Department.
  - e. Prior to placement of the geomembrane, the soil liner shall be smooth, uniform, and free from protrusions or cracks. During and after installation, the geomembrane shall be protected from damage (e.g. heavy equipment, tearing, puncturing, exposure to sun, etc.). Field seams shall be oriented vertically along the side slopes (i.e. top to bottom of side slope). The protective layer shall be promptly placed over the geomembrane, and properly maintained until waste is placed over the area.
6. Any changes to the approved QA/QC for liner installation (e.g., installation procedures, testing frequencies, testing methods, etc.) shall be submitted to the Department for approval.
7. At least two weeks prior to the placement of solid waste in a newly constructed cell or subcell, a construction quality assurance report shall be submitted to the Department which demonstrates compliance with all

applicable sections of the state regulations. The report shall be certificated by an independent registered professional engineer declaring that the area has been constructed according to the approved design plans, applicable testing, subgrade survey, top of liner survey, and construction testing methods. The report shall also include field logs, results of testing, surveyed elevations and construction testing methods.

8. The landfill shall be constructed, operated, and maintained with berms, ditches, or other means such that uncontaminated surface water is directed around and away from the developed landfill area. Likewise, each cell shall be constructed and maintained to direct uncontaminated surface water around and away from the active disposal area. Uncontaminated surface water run-off from construction activities, from areas with daily or intermediate cover, or from areas with final cover not having established vegetation, shall be diverted to an onsite sedimentation pond.
9. The sedimentation pond shall be constructed and maintained to collect and control at least the water volume from a 24 hour, 25 year storm event. Periodic dredging shall be conducted to maintain proper elevations, capacity, and operation.
10. Surface water contaminated by contact with solid waste and surface leachate flowing from filled areas of the landfill shall be collected and disposed as leachate. Surface leachate and contaminated surface water shall not be allowed to flow offsite of the landfill property.
11. The permittee shall provide documentation upon request demonstrating that the facility personnel have been properly trained to recognize regulated hazardous waste and PCB waste. All applicable federal requirements regarding training of personnel at the site must be demonstrated to the satisfaction of the Department.
12. The landfill shall be operated by employees of the permittee or employees of Waste Connections of Mississippi Disposal Services, LLC, as specified in the permit application unless otherwise approved by the Department. Prior to the operation of the facility by any other private entity, a complete disclosure form for the entity shall be submitted to and approved by the Permit Board as set forth in Section 17-17-501 et seq., Mississippi Code Annotated and all regulations promulgated pursuant thereto.
13. The permittee shall employ a landfill operator certified by the Department in accordance with Section IV.B.20 of the Mississippi Nonhazardous Solid Waste Management Regulations. A person who holds the current certificate of competency shall have direct supervision over and be personally responsible for the daily operation and maintenance of the landfill. In the event of temporary loss of a certified operator due to

illness, death, discharge or other legitimate cause, written notice shall be given to the Department within 7 days. Continued operation of such system without a certified operator may proceed on an interim basis not to exceed 180 days, except for good cause shown upon petition to the Commission.

14. Operation of the facility shall be conducted in accordance with all applicable requirements of the U.S. Army Corps of Engineers.
15. Security shall be maintained at the facility to prohibit unauthorized access and disposal. Access to the site shall be secured or locked when the site is closed and when no attendant is on site.
16. Litter and scattered debris on the landfill area and along the property access roads shall be collected at the end of every operating day and returned to the active disposal area.
17. The service area of the facility shall be consistent with the service area listed in the approved Three Rivers Solid Waste Management Authority's Solid Waste Management Plan. Solid waste generated by areas not within the approved service area shall be prohibited from disposal, unless specifically approved by the Commission on Environmental Quality.
18. Regulated asbestos containing material may be accepted for disposal pursuant to compliance with the approved asbestos acceptance operating plan and all applicable Federal Regulations. Such operating plans shall be reviewed and modified as necessary to ensure compliance with EPA NESHAP regulations 40 CFR 61.153 and 61.154 and submitted to and approved by the Department.
19. Infectious medical wastes, as defined by the Mississippi Department of Health, generated by established medical facilities, shall be prohibited from disposal unless such wastes have been satisfactorily rendered non-infectious and placed in special bags or other appropriate packages.
20. Vehicles entering the facility shall be operated and maintained to prevent loss of liquids or solid waste material. Vehicles failing to meet this requirement, after one warning to the driver, shall be refused acceptance at the site until the situation is remedied.
21. Random inspection of the incoming wastes shall be conducted at the frequency of at least 1 load per day.
22. Burning or smoldering wastes accepted at the site shall be unloaded and extinguished in an area separate from the active disposal area. The material shall not be placed into the active area until all smoldering debris

has been adequately extinguished. Such wastes, however, shall not be left uncovered at the close of operations for that day.

23. Should an accidental fire occur, the operator shall immediately take action to extinguish the fire and shall notify the Department within 24 hours by phone and 5 working days by mail.
24. Mining or excavation of the disposed solid waste shall be prohibited unless plans are submitted to and approved by the Department.
25. All solid waste shall be covered each day before the close of operations, or more frequently, if necessary, to control disease vectors, fires, odors, blowing litter, and scavenging. Cover shall consist of at least six inches of earthen material or an alternate approved method of cover. An alternate method of cover may be used if a specific description and plan of operation is submitted to the Department, and written approval is obtained.
26. The conditions of daily, intermediate, and final earthen cover shall be routinely inspected by landfill personnel during the operation of the facility. Erosion, cracks, ponding, leachate outbreaks, and similar problems shall be promptly repaired.
27. Small portions of earthen cover shall be removed from low areas of each lift in order to facilitate downward movement of leachate to the collection system. The amount of soil removed shall be minimized as much as possible.
28. Filled areas of the landfill with remaining capacity which will not receive waste within 30 days shall receive an intermediate cover of twelve inches of earthen material. An alternate cover system may be approved by the Department.
29. Final cover shall be placed on completed areas of the landfill in accordance with state regulations and the approved plan.
30. Filled areas of the landfill, which will not receive additional waste or final cover within one year, shall receive an intermediate cover of twenty-four inches of earthen cover. Following placement, a minimum of eighteen inches of the cover shall be maintained until additional waste is placed on the area or until final cover is applied. An alternate cover system may be approved by the Department.
31. Upon completion of disposal activities within completed cells, a surveyed landfill drawing shall be submitted to the Department showing final cover, final contours, the boundaries of waste disposal, and the waste volume contained in each cell.

32. The leachate collection system shall be operated as follows:
- (a) The leachate collection system of pipes, trenches and sumps shall be cleaned, maintained and pumped as needed to ensure proper leachate collection.
  - (b) The depth of leachate over the liner, excluding trenches and sumps, shall not exceed 30 cm.
  - (c) Leachate head measurements shall be made and/or monitored daily. If the facility utilizes an electronic pumping system, a record of the pumping quantity shall be maintained on a daily basis in lieu of daily individual leachate head measurements.
  - (d) Any measurement that indicates a head of 30 cm or greater on the liner or any electronic pumping equipment failure shall be reported to the Department immediately. Written correspondence shall be submitted within five (5) working days of non-compliance.
  - (e) Records shall be kept of daily measurements, quantities pumped, cleaning, maintenance, analyses and method of disposal.
33. The acceptance of offsite leachate and gas condensate for disposal shall be prohibited.
34. Groundwater monitoring shall be conducted at the facility in accordance with state and federal regulations. Monitoring shall be conducted semiannually, unless otherwise directed by the Department, according to the following schedule:

<u>Monitoring period</u>	<u>Report Due</u>
January - June	August 31
July - December	February 28 (of the following year)

Samples may be taken at any time during the monitoring period; however, all required sampling events (except background) shall be at least four months apart. The following reports and records shall be retained in the operating record, and a copy shall be submitted to the Department according to the schedule above:

- (a) The dates, exact location, and time of sampling;
- (b) The individual who performed the sampling;
- (c) Results of groundwater level measurements and a potentiometric map indicating direction of groundwater flow;



- (d) The date(s) laboratory analyses were performed;
  - (e) The individual(s) who performed the analyses;
  - (f) The analytical techniques or methods used;
  - (g) The results of such analyses, provided by the laboratory;
  - (h) The results of such analyses, prepared on a form provided or approved by the Department;
  - (i) The statistical comparison of analyses;
  - (j) A determination of statistically significant increase; and
  - (k) Chain of custody forms.
35. Groundwater monitoring wells shall be properly maintained and secured. Groundwater wells GW-2R, GW-9, GW-10, and GW-11 shall be installed prior to filling of the adjacent phases of the landfill. The permittee shall install additional groundwater monitoring wells, if deemed necessary by the Department.
36. At any time a statistically significant increase is identified for any parameter listed in Appendix I of 40 CFR Part 258, the required report outlined in Section E.34 of this permit shall be submitted to the Department within 14 days, unless otherwise directed by the Department.
37. Groundwater assessment monitoring and corrective action, if necessary, shall be conducted at the facility in accordance with state and federal regulations and the approved plan.
38. Methane monitoring and corrective action, if necessary, shall be conducted at the facility in accordance with state regulations and the approved operating plan. Methane monitoring shall be conducted quarterly, unless otherwise directed by the Department, according to the following schedule:

<u>Monitoring Period</u>	<u>Report Due</u>
January - March	May 30
April - June	August 31
July - September	November 29
October - December	February 28 (of the following year)

Measurements may be taken at any time during the monitoring period; however, all required monitoring events shall be at least 45 days (1½

months) apart. The following reports and records shall be retained in the operating record, and a copy shall be submitted to the Department according to the schedule above:

- (a) The dates, exact location, and time of measurements;
  - (b) The individual(s) who performed the measurements; and
  - (c) The results of methane level measurements, for all methane monitoring wells and for facility structures. Results shall be submitted on a form provided or approved by the Department.
39. Financial assurance, as required by state law and regulations, shall be established and maintained for closure and post-closure costs.
40. The permittee shall provide the Department with an updated financial assurance mechanism within 90 days of any permit modification resulting in an increase in the closure and post-closure care costs.
41. An annual report shall be submitted to the Department each year no later than February 28 to include data for the preceding calendar year. The report shall include the items listed below:
- (a) aggregate information on the types, amounts, and sources of waste received during the calendar year. Listed types should be divided minimally into residential and nonresidential. The sources of waste should have cities and/or counties listed individually.
  - (b) a contour drawing of the landfill showing areas filled during the report year and total areas filled.
  - (c) estimated remaining capacity, in terms of volumes or tons of waste.
  - (d) an updated disclosure statement for a contract operator, if applicable. If all information from the previously submitted disclosure statement is unchanged, a letter stating such may be included in lieu of an updated disclosure statement.
  - (e) an adjusted closure and post-closure cost estimate.
  - (f) an audit of the financial assurance document and the end of the year value of the financial assurance mechanism.
  - (g) a modified financial assurance document, if necessary.

- (h) documentation demonstrating that facility personnel have been trained to recognize regulated hazardous waste and PCB waste.
  - (i) documentation of compliance with operator certification requirements in accordance with state regulations.
42. Modification of this permit shall be required prior to a vertical or horizontal expansion of the facility or a significant change in the method of waste management.
  43. Any significant changes to the approved closure or post-closure plan must be submitted to the Department for approval prior to implementation.
  44. The permittee shall comply with the requirements of the Title V Air Permit to Operate issued for this facility, including but not limited to annual analysis and reporting of emissions from the facility and submittal of Title V fees in accordance with the Title V permit and applicable laws and regulations.
  45. The permittee shall comply with the requirements of the NPDES storm water permit issued for this facility, including but not limited to monitoring, analysis and reporting associated with any storm water discharge from the permitted storm water outfalls.
  46. The permittee shall comply with the requirements of the Pretreatment permit issued for this facility, including but not limited to monitoring, analysis and reporting associated with the discharge of landfill leachate to the Pontotoc POTW or the Oxford POTW.



**AQUATERRA**  
ENGINEERING, LLC

A COMPANY

# LANDFILL OPERATING PLAN

## Three Rivers Regional Landfill

Pontotoc, Mississippi

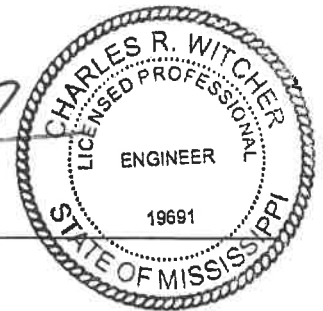
December 2009  
Revised October 2011

Prepared For:

**Three Rivers Solid Waste  
Management Authority**

Prepared By:

C. Rob Witcher, P.E.



10/24/2011

Date

Aquaterra File No: 0340800183

# **LANDFILL OPERATING PLAN**

## **THREE RIVERS REGIONAL LANDFILL**

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# **LANDFILL OPERATING PLAN**

## **THREE RIVERS REGIONAL LANDFILL**

### **Pontotoc, Mississippi**

## **1.0 INTRODUCTION**

### **1.1 TERMS OF REFERENCE**

This Landfill Operating Plan (Plan) was prepared for Three Rivers Regional Landfill (Facility) located in Pontotoc, Mississippi owned by the Three Rivers Solid Waste Management Authority (Owner) and operated by Waste Connections of Mississippi Disposal Services, LLC (Operator). The Plan was prepared for submittal to the Mississippi Department of Environmental Quality (MDEQ) as part of permit documents for a proposed permit renewal. The Facility is regulated by MDEQ through the *State of Mississippi Nonhazardous Solid Waste Management Regulations* (Regulations). Operation of the facility will be conducted in accordance with the Regulations. Upon approval by MDEQ, this plan will supersede the currently approved operations plan for the facility.

### **1.2 Purpose of Plan**

The purpose of this Plan is to summarize the principal activities pertinent to daily operations for the Facility including personnel responsibilities and equipment needs, waste inspection, placement, and covering practices, environmental control measures, inspection and maintenance of major structures and systems, and record keeping requirements.

### **1.3 Organization of Plan**

The remainder of this Plan is organized as follows:

- standards applicable to general aspects of the facility operations are described in Section 2;
- types of wastes accepted at the facility and practices relevant to inspection and handling of incoming waste are discussed in Section 3;
- waste placement, compaction, and covering procedures presented in Section 4;
- environmental control systems are described in Section 5; and
- See Section 6 for landfill systems' and structures' inspection and maintenance requirements.

## **2.0 GENERAL FACILITY STANDARDS**

### **2.1 RESPONSIBILITY FOR IMPLEMENTING PLAN**

The entity responsible for the operation and maintenance of Facility is:

Waste Connections of Mississippi Disposal Services, LLC

#### **Hours of Operations**

Normal operating hours during which waste will be received are as follows:

Monday through Friday	7 a.m. to 5 p.m.
Saturday	7 a.m. to 12 p.m.

However, work days and hours may vary without limitation to meet operational demands of the site. A sign will be located at the entrance of the landfill indicating the hours of operation. The facility may be closed on select holidays.





## **2.3 Control of Access and Use**

### **2.3.1 Perimeter Barrier**

The facility will be secured against unintentional or unauthorized ingress or egress through the maintenance of fencing, vegetation and/or landscaped earthen berms along the site perimeter readily accessible to the public. The fencing and/or berms will surround the site except along those sides that have an adequate natural barrier in preventing ingress and egress of unauthorized personnel. A locking gate will be provided at the entrance, which will be the only public access to the facility. All other entrance points to the site will be gated and locked when the site is not in operation.

### **2.3.2 Signs**

Signs are posted at the site entrance indicating the name of the facility, name of the operating authority, hours and days of operation, contact, disposal fees, and types of wastes accepted. A sign that clearly states "No Hazardous Wastes Accepted" is located at the entrance to the landfill. Traffic control, directional, and safety requirement signs are posted as needed.

## **2.4 On-Site Facilities and Structures**

The site includes the following structures:

- a scale house and/or office building accessible to facility personnel and fully equipped with sanitary facilities, heating facilities, lighting and communication equipment;
- a maintenance/shop area; and
- a public small-volume convenience disposal area.

Additional office space and/or maintenance facilities may be added or removed, as needed.

## **2.5 Access Roads, Parking, and Traffic Flow**

As required by the regulations, access roads into the active fill areas will be constructed as all-weather roads and will be maintained as such. Portions of the access roads constructed within the disposal areas may be abandoned, removed or covered as land-filling progresses. Typical access road locations are shown on the Permit Drawings. The access road locations shown are conceptual and may vary to accommodate operations.

Parking areas will be available at the scale house, office building, and the maintenance facility, and will be maintained to be accessible in all weather conditions. Traffic will be directed by road signs and/or pylons as necessary. Speed limits on site will be posted, as deemed necessary by the Owner, and will be enforced by site management.

## **2.6 Permanent Survey Control**

The Three Rivers Regional Landfill expansion has been developed from the state plane coordinate grid system. Permanent control points have been established by a Professional Surveyor which will provide the landfill management coordinate and elevation information for construction of the landfill.



## 2.7 Personnel

The daily operations of the Facility will be performed under the direction of the Landfill Manager. The Landfill Manager's responsibility is to ensure that operations at the site are performed in accordance with the procedures and standards outlined in this Plan and the Permit Drawings, and in accordance with the Regulations. In addition to the landfill manager, equipment operators and scale house operator(s) will perform the daily landfill operations. A Mississippi certified (or approved equivalent) landfill operator will be in responsible charge of the facility during operating hours.

## 2.8 Emergency Response Plan

Emergencies will be assessed and, if appropriate, resolved with the assistance of local fire and police departments, ambulance service, and civil defense. First aid supplies, fire extinguishers, telephone, and radio communication equipment will be maintained in full working condition at appropriate locations on the site.

Waste Connections of Mississippi Disposal Services, LLC has developed an extensive program of safety and of accident prevention at its waste disposal facilities. As part of this program, select employees are trained in proper facility operations and emergency procedures.

## 2.9 Public Convenience and Accommodation

Provisions are made for smaller loads (cars and pickups) to dispose waste into roll-off containers specifically located away from the active face for use, safety, and convenience. Some loads may be sent to the active face at the discretion of the landfill personnel. When the convenience roll-off containers are full, they will be emptied at the working face by facility personnel.

## 2.10 Sealing of Boreholes

Prior to the excavation of any cell, all boreholes drilled or excavated during the subsurface investigation program, previously installed piezometers, and abandoned wells which are in or within 100 feet of areas to be excavated and filled with waste will be backfilled with a cement-bentonite slurry to an elevation greater than ten feet above the bottom of the excavation unless the excavation itself will completely remove the well to its lowest extent.

## 2.11 Litter Control

Generation of litter will be minimized by maintaining, as much as practical, a small, confined, and compacted working face and through the application of daily cover. Litter fences may be deployed as needed to aid in litter control. Every reasonable effort will be made to control litter and to collect windblown litter in a timely manner. During adverse weather conditions, it may take several days to collect and dispose of all windblown litter. Should unforeseeable conditions (e.g., high winds) produce excessive amounts of litter that cannot be picked up in one day, the collection of this litter will be given high priority and collection and disposal will continue on succeeding days until completed.

Despite the application of proper measures to control litter, some litter may still escape the immediate working area and from vehicles using the public roadways. The roadways near the entrance to the site will be routinely patrolled for litter in accordance with schedules established by the Landfill Manager. On-site litter (that which is at or within the perimeter fence) will be picked up during normal, routine housekeeping activities and/or in accordance with schedules established by the landfill manager.



### **2.12 Dust Control**

Dust originating from excavations and from haul road surfaces will be controlled by periodic watering, as required. The use of anything other than water will require approval by the MDEQ. In addition, to minimize the blowing of dust, the final and intermediate covers will be vegetated in accordance with the Regulations, other facility permits, and as necessary.

### **2.13 Fire Control**

In a properly operated landfill, the chance of fire at the working face is minimal. The facility will have on-site, fire suppression equipment (such as fire extinguishers, water truck, soil stockpile, etc.) to control any accidental fires, should they occur, and each piece of heavy equipment (i.e. compactors, dozers, etc.) will have a fire extinguisher in case of an equipment fire. The facility personnel will be instructed in appropriate fire fighting procedures.

For any fire incident, the MDEQ should be notified within 24 hours of the event. Within 5 working days, a written report regarding the incident, including probable cause, efforts to extinguish and plans or methods to be employed to prevent such further occurrences, should be submitted. A site-specific emergency response plan will be kept at the site. The plan outlines potential emergencies and appropriate responses. A copy of the plan is included in Section 8.0.

Should a "hot load" arrive at the gate, the gate clerk will direct the driver to an area away from the working face of the landfill to unload. Using on-site equipment, the load will be extinguished before being deposited into the active portion of the landfill.

No solid waste will be burned at the site. Clearing debris at the disposal facility such as trees and stumps may be burned if prior approval is received from local authorities, as applicable. Burning of trees and brush will take place on a future fill area or a buffer area, away from the active filling areas. Emergency telephone numbers will be conspicuously posted.

### **2.14 Vector Control**

Accessibility for food or harborage shall be denied to the extent possible through good operating practices (primarily high density compacting) and the application of daily cover. If necessary, appropriate measures, such as the use of a professional exterminator or federal/state agency, will be taken.

### **2.15 Scavenging and Salvaging**

Scavenging and salvaging will not be allowed. Enforcement will be administered by the Landfill Manager and operation personnel.



### **3.0 MANAGEMENT OF INCOMING WASTE**

#### **3.1 Waste Flow Measurement**

Waste entering the facility is immediately directed to the site scales. For industrial process waste, the transporter is required to present the waste manifest to the scale clerk, who checks the manifest against the profile approved on file at the facility. If the profile is approved and current (not expired), the waste may be “fingerprinted” for physical consistency with the profile sheet. Additional discussion on fingerprinting is provided in Section 3.4. Site operators are notified by radio of any special handling requirements of the incoming waste.

The scale unit is calibrated annually in accordance with the MS Department of Transportation (MDOT) weights and measurements standards. In the event the facility’s scale system becomes incapacitated, incoming waste will be measured by estimating container volume or based on customer history.

#### **3.2 Approved Service Area**

This item is addressed in the currently permitted Solid Waste Management Plan as developed by the Three Rivers Solid Waste Management Authority. The approved service area consists of the State of Mississippi counties of Alcorn, Attala, Benton, Calhoun, Carroll, Chickasaw, Coahoma, Desoto, Grenada, Holmes, Itawamba, Lafayette, Lee, Leflore, Lowndes, Marshall, Monroe, Montgomery, Panola, Pontotoc, Prentiss, Quitman, Tallahatchie, Tate, Tippah, Tishomingo, Tunica, Union, Winston and Yalobusha.

#### **3.3 Anticipated Solid Waste Types and Quantities**

The current estimated average daily volume of refuse taken at the facility ranges from 500 to 2,000 tons per day. This volume is expected to grow throughout the life of the facility. The only limit on the volume received at the landfill is defined by that volume which will fill the site to the final grading plan shown on the Permit Drawings and as documented in the permit application.

#### **3.4 Types of Wastes Accepted**

As a full service municipal solid waste landfill, the facility accepts and will continue to accept various types of solid wastes, including but not necessarily limited to: domestic (residential) wastes, municipal wastes, bulky wastes, commercial wastes, construction/demolition wastes, farming wastes, dead animals, industrial wastes, institutional wastes, landscaping and land clearing wastes, medical wastes, sludges, and white goods. In addition, the facility will accept approved liquid wastes that are solidified with a suitable solidifying agent prior to placement in a landfill unit.

The facility will accept and dispose of asbestos wastes in accordance with EPA NESHAP regulations 40 CFR 61.153 and 61.154. When a load containing asbestos arrives at the gate, the scale clerk informs working face operators of the arrival load and its size. Prior to acceptance of asbestos waste at the landfill, the scale clerk confirms the manifested load. The operator then digs a narrow pit, perpendicular to the prevailing winds when possible, for the waste. This pit shall be dug into waste not covered for more than 72 hours. The operator then directs the truck to the designated area, ensures that other trucks are kept away from the area, and buries the load with non-asbestos containing material, immediately after dumping. The location of the load is recorded as required by NESHAP regulations.



The facility will not knowingly accept any "hazardous wastes," PCB-containing wastes or "special wastes" (including industrial process wastes), which have not been approved for receipt by MDEQ. Further, the Owner implements an internal waste approval process and waste inspection program in an effort to prevent any unknowing acceptance of such restricted wastes.

Hazardous wastes to be prevented from disposal at the Three Rivers Sanitary Landfill include: hazardous waste as defined by and subject to the MS Hazardous Waste Management Regulations and Subtitle C of the Federal RCRA, polychlorinated biphenyls (PCB) waste, regulated Asbestos Containing Materials (ACM) which have not been properly bagged or contained in such a manner as to prevent wastes from becoming airborne, and whole waste tires which have not been shredded, chopped, cut, or otherwise processed as described in Section D.2 of the MS Waste Tire Management Regulations.

Liquid wastes shall be solidified and disposed of in accordance with the approved Waste Solidification Request prepared by Terracon, dated May 4, 2011, and the subsequent approval letter from MDEQ dated May 15, 2011.

### **3.5 Special Waste Disposal**

No waste that is a "special waste" will be disposed of at the facility unless and until such disposal is approved by the MDEQ. Further, such "special wastes" will be handled and disposed at the facility in accordance with any special management conditions that may be specified in this Regulatory approval.

In addition to this Regulatory approval process, the Owner implements a separate pre-acceptance waste screening and approval program designed to ensure that the facility: (i) does not receive any wastes which are "hazardous wastes" pursuant to Section 1.C of the Regulations and/or 40 CFR Part 261; (ii) understands beforehand the nature and potential safety hazards or management difficulties of each industrial, commercial, or other potential "special waste" stream it is to receive; (iii) can identify any waste restrictions from the Regulations or from corporate policy that apply to the waste; and (iv) has received any necessary State "special waste" approvals prior to receiving the waste. The Owner maintains that at the facility and/or at centralized locations, Special Waste Approval personnel that are specially trained in the identification of "hazardous wastes" and the management of "special wastes", and all such waste approvals are processed by these personnel and by the Landfill Manager (or his senior manager designee).

Once the Owner's internal special waste approval process has determined that all of the above criteria have been met, a Special Waste Approval form is completed and forwarded to the facility's scale house operator(s), together with a copy of the approval letter from MDEQ. These completed forms identify the waste stream's generator and the transporter, and include a physical description of the approved waste and any special management requirements that may have been established. The information on this completed form is then used by the scale house operator(s) and the equipment operator(s) to check incoming loads for compliance with waste acceptance restrictions.

Special wastes such as "industrial wastes" must be carefully documented and approved by MDEQ prior to disposal in the landfill. Industrial process waste means any solid waste generated as a result of the manufacture of a product, except uncontaminated packaging materials and containers, uncontaminated machinery components, tires, land clearing or landscaping wastes, office wastes, cafeteria wastes, and



construction and demolition wastes. The Owner must obtain information on any industrial process waste stream, including the following:

- Generator's name and address
- Transporter's name and address
- Name of the waste
- Process generating the waste
- Physical and chemical properties of the waste
- Quantity of waste
- Certification from the generator that the waste is not a regulated hazardous waste under Subtitle C of RCRA and the MS Hazardous Waste Management Regulations.

The Owner shall forward the above information to MDEQ and shall not accept the industrial waste if MDEQ objects to disposal of such waste. MDEQ may require submission of additional information to further describe or characterize the waste.

Fingerprinting, if required, may consist of one or any combination of the following: pH, paint filter test, and visual inspection. Specific recommendations will be made based upon the Owner's knowledge of the waste stream. Once the waste is matched to an approved profile, and any fingerprinting required is conducted to confirm that the waste matches the approved profile, the waste load is accepted for disposal and directed to the active working face. Records are kept of each fingerprint inspection that is performed.

### **3.6 Waste Inspection Plans**

It is the Owner's objective not to dispose of any unauthorized wastes at the facility. All incoming waste loads are processed at the scale house, where they are typically weighed and visually checked for unauthorized wastes (if such can be readily and safely done). Suspicious loads and randomly selected loads will be inspected for unauthorized wastes at the working face or other designated area on the site. A minimum of one (1) load per day must be inspected, as required by MDEQ.

If the inspected load is of a "special waste", then the waste will be visually inspected to verify that it meets the physical description provided on the completed Special Waste Approval form (described in Section 3.3 above). The scale house operator(s) and equipment operators will coordinate such inspections via radio as necessary. Most random inspections will be conducted at the working face or other unloading area. Records of all such inspections will be maintained, including a description of the actions taken if unauthorized wastes are discovered. In addition to these targeted and random inspections, equipment operators will continually check for obvious unauthorized wastes during unloading operations at the working face.

If the scale house operator(s) observes unauthorized waste, then the driver will be instructed not to unload and landfill personnel will contact the generator. No unloading will be permitted unless and until all necessary approvals have been received. If unauthorized wastes are observed by equipment operators during unloading operations at the working face, then the driver will be instructed to stop unloading, landfill personnel will contact the generator, and the equipment operator(s) will carefully segregate any unauthorized waste from the active disposal area. This segregated waste will be subsequently removed by the transportation company and/or generator, as appropriate, if prompt



authorization of the waste stream cannot be obtained. If and when the unauthorized waste is determined to be a “hazardous waste”, then MDEQ will be notified as appropriate.

The Owner’s scale house operator(s) and equipment operators receive introductory and at least annual refresher classroom training on the identification of hazardous wastes, on the identification and management of special wastes, and on their responsibilities for identifying and responding to the identification of unauthorized wastes at the landfill. In addition, continuing on-the-job training is provided by senior landfill personnel.

### **3.7 Management of Tires**

The facility will not knowingly accept for disposal any whole waste automotive (or similar) tires. Waste automotive (or similar) tires may be accepted and disposed of in the same manner as other waste after they have been shredded, chipped, chopped, circumferentially sliced, or otherwise processed to render them not whole and susceptible to floating. Whole tires incidental to MSW loads may be impossible to detect prior to unloading or disposal. Whole tires not detected at inspection locations may be removed from the working face and stored on site.

## **4.0 LANDFILL OPERATIONS**

### **4.1 Phasing of Operations**

A generalized phase development plan for the facility is presented in the Permit Drawings. In general, waste disposal operations will start from the lowest portions of the active face, and waste will be spread and compacted in uniform lifts to minimize void space and settlement, unless precluded by extreme weather conditions.

The proposed development plan is conceptual and may be modified to optimize landfill operations. The interim conditions (i.e., boundaries and waste grades) of the individual cells and phases may be varied from those shown on the Permit Drawings, and temporary sumps may be constructed and used to increase the efficiency of the operation.

The waste disposal operations will be conducted in accordance with applicable regulations and as described in Section 4.2 of this Plan. The storage, containment and disposal of solid waste will be conducted in a manner that protects human health and the environment.

### **4.2 Basic Landfilling Procedures**

#### **4.2.1 Unloading Operations**

Waste unloading will be done at the active working face, as directed by the Landfill Manager, equipment operators, or spotter. Unloading will be confined to the smallest practical area. Waste will be spread in manageable, uniform lifts and incorporated into the previously disposed in-place waste mass.

#### **4.2.2 Spreading and Compaction**

Refuse will be spread in layers, or lifts, prior to compaction. The thickness of the layers will be kept to a minimum, as is reasonably possible, to facilitate waste compaction. Landfill compaction equipment will make approximately three to four passes over each layer at the working face, providing adequate



compaction, conserving volume and reducing the long-term settlement of the landfill. Large or bulky objects may need to be separated from refuse at the working face and placed such that they are thoroughly crushed by compaction equipment to prevent bridging and localized subsidence.

To maintain stability, the final overall slope of the waste on exterior faces will be a maximum resultant of 4 horizontal to 1 vertical (4H:1V), as required by Regulation. Temporary intermediate slopes and storm water diversion measures may be steeper.

### **4.3 Working Face Practices**

#### **4.3.1 Size and Slope of Working Face**

The refuse cell is the basic building block of a sanitary landfill. It is composed of several compacted layers of waste and enclosed by cover material. Basic techniques that will typically be implemented for constructing the refuse cell are outlined below.

The working face is the portion of the uncompleted cell on which additional waste is spread and compacted. Access to this area and all other areas within the landfill boundary will be restricted to prevent unauthorized entry at all times. To maintain sanitary operation, the working face will be kept as small as possible; however, the width will be sufficient to conduct waste placement operations in a safe and efficient manner. Efficiently managing the size of the active working face will optimize overall landfill operations by minimizing equipment movement, cover material requirements, and blown litter.

The optimal daily working face size will vary depending on many factors including waste acceptance rate, disposal vehicle traffic, weather conditions, and landfill equipment availability. The size of the working face will be managed to ensure the safe and efficient flow of vehicle traffic in the active disposal area, while minimizing the amount of waste exposed to wind or vectors.

#### **4.3.2 Start-Up and First Lift**

Prior to placing the first lift of waste, the thickness of the protective cover will be verified by surveying the top of the compacted clay liner and the top of the protective cover. It should be noted that herein, protective cover refers to all soil materials placed immediately above the clay liner system.

To preserve the integrity of the liner system, no disposal vehicles will be operated directly on the protective cover soil after it has been placed to grade. Soil platforms or similar protective measures will be placed adjacent to the working face to keep vehicles off the protective cover. Landfill personnel will be positioned at the working face for the start-up of each new area to direct vehicles to their unloading points.

The first lift of waste to be placed on the protective cover soil will be a minimum of 4 ft in compacted thickness and will be placed in a manner that ensures that the liner and leachate collection system (LCS) piping will not be damaged. The first lift of waste will consist of uniform wastes containing no large debris that may damage the liner or LCS.





Waste compaction equipment will not be allowed directly on the protective cover and will not spread waste in a manner that displaces the protective cover layer. Waste disposal operations will begin at the edge of the protective cover layer by carefully pushing waste out over the protective cover. Landfill personnel will monitor the placement, compaction, and covering of the first layer of waste. Inadvertent damage to the liner will be reported to the Landfill Manager and will be appropriately repaired, fully restored, and documented in the Operating Record prior to filling in the damaged area.

#### **4.3.3 Subsequent Lifts**

After the first lift on top of the protective cover layer is safely in place, the operating procedures described in this subsection will be used for the second lift, and for all subsequent lifts. Trucks and compactors will be permitted to operate on these lifts. Bulky wastes delivered to the facility and any stockpiled bulky wastes received during construction of the first lift will be filled in subsequent lifts. The daily operating procedures including positioning traffic controls, application of daily and/or intermediate cover will follow those as outlined in the previous section. Soil erosion control and site maintenance tasks will be implemented throughout the development of all lifts. After the final landfill elevation has been reached, final cover will be applied to the landfill, in accordance with the Permit Drawings. The landfill area to be closed will first be graded to promote surface water drainage and to prevent the ponding of water on previously filled areas.

In some areas of the landfill, vertical gas extraction measures will be placed in accordance with the facility's approved NSPS Landfill Gas Extraction System design and air quality permits. The gas extraction system will be protected from surrounding landfill operations and construction.

#### **4.4 Cover Materials Standards**

The active portion of the disposal area will be covered on a daily basis. In accordance with the Regulations, intermediate and final covers will be placed on in-active areas of the landfill. Materials sufficient to meet these requirements will be obtained from on site and off-site sources. Requirements and standards for daily, intermediate, and final covers are presented in this section.

##### **4.4.1 Daily Cover**

Daily cover material will consist of two major types: soils and synthetics. On-site soils will be excavated within the property boundary. In addition to being available from the ongoing excavations, cover soils will be accessible from stockpiles in the event of inclement weather.

When soil is used as daily cover, a minimum of six inches of soil will be placed over refuse at the conclusion of each day. The daily cover may be routinely removed at the beginning of the subsequent day's operations. Care must be taken to minimize the amount of solid waste included within the material removed. This practice increases the rate of leachate flow into the LCS at the base of the landfill for removal and treatment. This practice also enhances vertical movement of landfill gas for better control by the gas extraction system.



At the end of each day, refuse must be covered in accordance with the permit and MDEQ Regulations. The soil removed at the beginning of the day will be used first to cover the waste. Additional new soil or Alternative Daily Cover (ADC) will be applied to finish covering the working face. However, Alternative Daily Cover use must be approved by MDEQ prior to implementation. Any ADC shall achieve the daily cover objectives prescribed by the Regulations or other requirements of MDEQ Regulations.

#### **4.4.2 Intermediate Cover**

In the event that a landfill surface will not be active for a period of over 30 days, a minimum of 12 inches of intermediate soil cover, or other material approved by MDEQ, will be placed over these areas. The intermediate cover will be placed and graded to promote positive drainage. Erosion control measures for the cover will consist of frequent monitoring and repairing as necessary, including optional use of erosion control matting, hay, tarps, vegetation, etc. Sediment-laden run-off will be channeled to one of the sedimentation ponds on site. When operations resume, intermediate cover may be removed and reapplied in the same manner as daily cover, as described in Section 4.4.1. Landfilling will proceed in this manner until final design elevations are achieved.

#### **4.4.3 Final Cover**

The final cover placement must begin within 30 days of the final receipt of wastes, and must be completed within 180 days, in accordance with the Regulations. Grading and vegetation of the final cover must be completed within 180 days after final elevation/final receipt of wastes has been achieved. Additional closure activities are described in the Closure/Post Closure Plan included within the permit application.

#### **4.5 Leachate Recirculation**

The facility recirculates leachate in accordance with its approved Leachate Recirculation Plan.

#### **4.6 Wet Weather Operations**

A “wet weather” accessible area may be utilized when direct access to the working face is not possible due to weather conditions. Access to the area will be provided with all-weather roads. The Landfill Manager shall determine the need for a “wet weather” area. Measures (such as the construction of temporary diversion ditches) will be taken as necessary at the active cells to minimize run-off and run-on from entering the work area.

#### **4.7 Operating Equipment**

The following equipment (or others that will achieve the same results) typically will be dedicated to operating the facility: 1 track-type dozer, 1 landfill compactor, 1 track-type hydraulic excavator (or tractor with pan), 1 dump truck (or tractor with pan), 1 water pump, and miscellaneous tools and equipment.

Scheduled maintenance will be performed to keep the equipment in good working order. Equipment substitutions, deletions, and additions may occur as necessary to facilitate waste flow and facility operations. In case of equipment breakdown, arrangements will be made for the acquisition of substitute equipment so that proper continued operation of the landfill may occur.



#### **4.8 Horizontal and Vertical Control**

Horizontal and vertical control for the site has been established by a Professional Land Surveyor registered in the State of Mississippi. The site control is on the State Plane Coordinate System, North American Datum of 1983 (NAD 83), Mississippi East Zone, US foot.

The Operator will retain the services of Land Surveyor licensed in the State of Mississippi to set the horizontal and vertical waste limits. The Surveyor will periodically check the waste to verify that the waste limits have not been exceeded. The waste will also be surveyed prior to construction of the final cover.

### **5.0 ENVIRONMENTAL CONTROLS**

#### **5.1 Leachate Containment and Control**

The facility will be constructed with a liner system that will impede the migration of leachate into the environment. The liner system will transmit the leachate to a collection area via transmission through a Leachate Collection System (LCS). The LCS will drain leachate into sump areas where submersible pumps will pump the leachate through a leachate force main to the leachate storage tanks. The pumps will be operated by switch to maintain a maximum of 30 cm of leachate head over the liner (excluding sump and trench areas). Sump pumps are equipped with level indicators set to trigger indicator lights on the control panel.

Leachate will be pumped to the leachate storage tanks by way of the leachate force main. If necessary, excess leachate will be transferred from the storage tanks or directly from the sumps via tanker truck to a private, appropriately permitted treatment facility. Alternately, the leachate may be transported to an appropriately permitted Publicly Owned Treatment Works in accordance with a State of Mississippi Pre-treatment permit obtained from MDEQ.

Any surface movement of leachate outside of the solid waste boundary will be immediately and effectively managed, controlled, and contained. Any leachate on the surface of the landfill will be effectively managed and controlled. Leachate will be prevented from entering any surface water drainage system.

Storm water that comes in contact with waste during the operational life of the landfill will be controlled by grading the active face of the landfill to divert the contact water toward the center of the active area. The contact water will gradually percolate through waste and into the LCS.

#### **5.2 Surface-Water Control System**

The surface-water control system for the facility is presented in the Permit Drawings. This system includes surface-water control components to prevent flow of run-on onto the active portion of the landfill during the peak discharge from a 25-year storm, and to control and convey surface-water runoff volume resulting from a 25-year, 24-hour storm. The discharge from the landfill facility will be in accordance with any requirements of The Clean Water Act, including but not limited to the National Pollutant Discharge Elimination System (NPDES) requirements.



Temporary diversion berms and collection areas will be constructed around the active cell at the bottom of the excavation, and pumps will be deployed to empty the collection areas during and/or after each storm event, as needed. Excavation side slopes that are not changing due to the ongoing excavation will be vegetated or covered by a sacrificial layer of geosynthetic material to minimize erosion. Runoff from soil stockpiles, borrow, and construction areas will be controlled using Best Management Practices (BMP's) in accordance with the facility's Storm Water Pollution Prevention Plan (SWPPP).

### **5.3 Landfill Gas Control**

A landfill gas extraction system has been designed for the facility to comply with current air quality regulations. The design includes vertical gas extraction wells that will be connected by lateral pipes and header loops. Lateral pipes will connect the wellhead to the header loop. The header loop will transmit the gas to a blower/flare station.

In some instances, the interim landfill configuration may be such that a complete header loop cannot be constructed. In these instances, a portion of a header loop, or "spur", will be constructed and connected to the blower/flare station. Spurs will be incorporated into the complete header loops as additional portions of the gas extraction system are installed.

Should it become necessary for odor control or air quality, temporary gas extraction wells may be constructed. These wells will be routed to a header system as necessary to facilitate destruction of the gas. Alternately, the wells may utilize solar flares or other standalone methods of gas destruction.

Condensate generated from the landfill gas will flow by gravity through the lateral and header pipes to one of several low points in the pipe system. At each low point, condensate will flow into a perforated HDPE condensate sump, and will infiltrate into the underlying waste or be transmitted directly into the sump removal system.

### **5.4 Landfill Gas Monitoring**

In accordance with the Regulations, the facility has installed perimeter gas monitoring probes and continuous monitoring devices within facility structures to monitor for landfill gas migration. Details regarding the facility's gas monitoring system and monitoring procedures are provided in the facility's Landfill Gas Monitoring Plan. The currently permitted Landfill Gas Monitoring Plan was prepared by USA Waste Systems, Inc., dated February 29, 1996. No changes are currently proposed to the plan. A copy of the plan is included at the end of this Operations and Maintenance Plan.

### **5.5 Groundwater Monitoring**

The facility has developed a groundwater monitoring network and program in accordance with the Regulations. Monitoring of groundwater at the facility is performed in accordance with the approved *Groundwater Sampling and Analysis Plan*.



## **6.0 INSPECTION AND MAINTANANCE**

### **6.1 Facility Inspection Plan**

#### **6.1.1 General Self-Inspections**

General self-inspections of the facility will be conducted daily by trained personnel in an effort to identify potential malfunctions, deteriorations, operator errors, discharges, and leachate seepage that may cause a release to the environment or a threat to human health. Any deterioration or malfunction of equipment or structures or any other problems revealed by the inspections will be corrected to comply with the facility permit and to ensure that no environmental or human health hazard develops. When a hazard is imminent or has already occurred, remedial action will be taken immediately to correct or repair the hazard. The daily general self-inspections shall be undocumented; scheduled self-inspections shall be documented on a monthly basis.

#### **6.1.2 Leachate Collection System**

The LCS will include the side slope risers, pumps, and force main, which collect and transport leachate from the sumps to the leachate storage tanks. The LCS will be buried under the refuse or the perimeter access road. An inspection for proper operation of the sump and side slope riser system will be made prior to start-up to confirm that the risers are secure and not damaged. The pump will be tested in the sump to assure that the system will effectively evacuate and transport liquids to the leachate storage tanks. Any damage to the system will be repaired prior to waste filling.

Leachate sump pumps located in active areas, or in areas without final cover, will be inspected on a periodic basis to confirm normal operation. Additional inspection, preventive maintenance, and checking of the electrical components will be performed in a manner and frequency in accordance with manufacturer's recommendations.

#### **6.1.3 Leachate Storage Tanks**

The leachate storage tank(s) will be visually inspected periodically for leaks into the secondary containment area and for structural integrity.

#### **6.1.4 Surface-Water Control System**

Drainage ditches, inlet structures, and the sedimentation ponds will be inspected as required by the facility's SWPPP or NPDES Storm Water Permit. Drainage ditches, inlets, and structures will be cleared of obstructing debris as soon as a problem is identified. If channels become filled with sediment, cleaning may be required to restore original flow capacity.

Surface-water piping and enclosed conveyance systems may contain landfill gas. Prior to accessing the surface-water piping systems, protective measures will be taken to avoid explosion(s), fire(s), and asphyxiation(s).

#### **Landfill Cover System**

Completed areas will be inspected a minimum of once a month for signs of erosion. Significant ruts and gullies will be filled and restored to appropriate grades, and revegetated.



## **6.2 Facility Maintenance Plan**

### **6.2.1 Overview**

In conjunction with the Facility Inspection Plan, all maintenance of environmental controls will be based upon the results of the monthly self-inspections discussed in Section 6.1.1. The following section refers specifically to the maintenance of the environmental controls installed at the landfill. It does not include the regularly scheduled maintenance of landfill roads or equipment such as vehicles, scales, or buildings. In addition, each piece of equipment will be inspected and maintained in accordance with all manufacturers' recommendations.

### **6.2.2 Leachate Collection System**

The electrical controls, pumps, valves, pipes, and couplings will be maintained in proper operating condition at all times. Maintenance will be performed on the LCS as required and identified through the monthly inspection activities.

### **6.2.3 Surface-Water Control System**

The drainage ditches, drainage benches or diversion berms, down-drain pipes, drainage structures, and culverts will be repaired and maintained as soon as practical following identification of any damage or deficiencies. This maintenance includes repair of ditches in the active landfilling areas, on intermediate and final covers, and diversion ditches around the landfill.

### **6.2.4 Cover Maintenance**

Cover maintenance includes both cover soil and vegetation for intermediate and final cover. The inspections performed monthly will help in assessing the cover condition to verify the integrity of the final cover (e.g., check for cracking due to differential settlement, erosion, or desiccation), and the condition of the vegetation. Areas identified by the operator as areas particularly susceptible to erosion may necessitate regrading. Vegetation, anchored mulch or both will be maintained and reapplied as necessary to sustain an effective erosion control layer. Vegetation on closed portions of the landfill will be mowed as necessary.

If a significant problem with the cover, vegetation, surface-water detention dikes, perimeter berms, erosion, or drainage structures is identified, work orders will be issued to correct the problems. Repair work will be initiated and completed as quickly as practicable.

The timing of the repairs will depend on the nature of the repair. Minor filling to eliminate ponding, and the reseeding and fertilizing of disturbed or problem areas will be accomplished with little delay. Major repairs, such as extreme erosion, significant local instability of slopes, or substantial settlement, may require geotechnical evaluation and design prior to implementing final repairs. In these cases, a registered engineer will be retained to assess the damaged areas. In some cases, the need for analysis and design of the severely damaged areas will delay repair activities. Thus, in some cases, final repairs could be delayed. In these cases, temporary repairs may be performed as determined necessary. All eroded and scoured drainage channels will be repaired and liner material will be replaced if necessary.

Repair of damage to the final cover system resulting from erosion and differential settlement may include backfilling, replanting and stabilizing eroded areas, providing additional drainage facilities to



prevent future erosion, refilling depressions, repairing cracks in the final cover, and revegetating disturbed areas. All reworked surfaces and areas with failed or eroded vegetation in excess of 100 ft<sup>2</sup> cumulatively, will be revegetated in accordance with the facility closure plan.

## **7.0 RECORDKEEPING**

In accordance with the Regulations, the facility will maintain an Operating Record at or near the facility, or at a location approved by MDEQ. Documents include, but are not limited to:

- facility permitting documentation, including modification request and approval documentation,
- liner quality assurance/quality control documents,
- as-built documents,
- Operator's certification
- inspection records,
- training procedures and documentation,
- gas monitoring results,
- groundwater monitoring results,
- closure and post-closure cost estimates,
- asbestos waste acceptance records (see discussion below),
- and financial assurance documentation.

The operating record must be available for inspection by MDEQ personnel at reasonable times. MDEQ will be notified when documents have been placed in the operating record. All documents will be maintained for the life of the site.

### **7.1 Asbestos Waste Acceptance Records**

EPA revised the asbestos NESHAP regulations on November 20, 1990. Reference should be made to 40 CFR, Part 61, Subpart M for the full regulations. Although the NESHAP has not been revised to alter its applicability to friable and non-friable asbestos-containing materials (ACM), non-friable asbestos materials are now classified as either Category I or Category II material.

Category I material is defined as asbestos-containing resilient floor covering, asphalt roofing products, packings, and gaskets. Asbestos-containing mastic is also considered a Category I material. Category II material is defined as all remaining types of non-friable ACM not included in Category I that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The asbestos NESHAP specifies that Category I materials that are not in poor condition and not friable prior to demolition do not have to be removed, except where demolition will be by intentional burning. However, regulated asbestos-containing materials (RACM) and Category II materials that have a high probability of being crumbled, pulverized, or reduced to powder as part of demolition must be removed before demolition begins.

Because EPA has taken a "cradle to grave" approach regarding the disposition of ACM, responsibility for the ultimate fate of Category I ACM rests with the individuals involved in handling the material. Category I and II ACM that is considered RACM must be disposed of in a landfill that operates in



accordance with CFR 61.150 and 61.154, or in an EPA-approved conversion facility described in 61.155 of the asbestos NESHAP. Category I and II non-friable ACM that is not considered RACM during demolition may be disposed of in a landfill that normally accepts construction debris. However, if Category I or II non-friable ACM is sanded, ground, cut or abraded before it is buried at the landfill, it is subject to the asbestos NESHAP.

## **8.0 EMERGENCY CONTINGENCY PLAN**

### **8.1 Introduction**

This section identifies a set of unplanned circumstances that may occur at the landfill. If handled correctly, the damage or impacts from these problems can be minimized. This chapter presents procedures to follow for the dealing with problems as they occur. It is important that the operating personnel be familiar with the procedures in order to prevent environmental contamination or damage to landfill facilities.

This plan is designed to be submitted to the local police and fire department and nearby health care facilities when the permit for landfill operations is issued. The entrance to the facility allows emergency vehicles immediate access to the landfill by police, fire, and ambulance.

At the end of the section is a list of individuals and emergency response agencies to contact. This list will be posted near all telephones on-site to provide “ready” access to emergency response agencies.

This plan is organized by subsection and contains specific plans to address each type of occurrence listed below:

### **8.2 Fire Control Plan**

#### **8.2.1 When Fire Occurs**

1. Extinguish small fires with fire extinguisher or smother with soil - don not remain near large fires or explosive materials.
2. Determine location, extent, type and, if possible, cause of fire or explosion.
3. Notify on-site personnel and implement safety and fire control procedures.
4. Notify facility emergency coordinator if the fire cannot be immediately controlled.
5. Notify fire department if necessary. Clearly state:
  - A. Location of landfill.
  - B. Location of fire or explosion in landfill.
  - C. Extent of fire or explosion.
  - D. Type of fire or explosion.
  - E. Actions now being taken.
  - F. Injuries.
6. Notify Rescue Squad, if necessary.
7. Notify health care facility, if necessary.
8. Notify Sheriff, if necessary.





9. Notify MDEQ in writing. For any fire incident, MDEQ should be notified within 24 hours of the event. Within 5 working days, a written report regarding the incident, including probable cause, efforts to extinguish and plans or methods to be employed to prevent such further occurrences, should be submitted.

### **8.2.2 "Hot Load" Procedures**

A "hot load" is a load of burning solid waste in an incoming truck. It may be actively burning, but more likely will be just smoldering. When a "hot load" is discovered in a vehicle, the driver should be directed to dump the material in an area located away from the actual fill face and cleared of vegetation and debris. After the "hot load" is dumped, the equipment operator should spread the material, and then cover it with soil to smother the fire. After the fire is extinguished, the material should remain in the cleared area until no evidence of fire remains. At the end of that day, check to make sure no fire or smoldering remains, and then place it into the fill.

### **8.2.3 Fire Extinguishers**

Fire extinguishers should be installed in the following locations:

- Scale House
- Maintenance Building
- Selected on-site Vehicles and Equipment

## **8.3 Accident or Injury**

### **8.3.1 When an Injury Occurs**

1. Shut down equipment
2. Determine extent of injuries (location, seriousness).
3. Apply pressure (compress) to wound to stop severe bleeding.
4. If victim is not breathing, administer CPR, if trained.
5. DO NOT MOVE VICTIM(S), unless
  - A. Victim is still in danger.
  - B. Victim can move self without great pain.
6. Have someone PHONE RESCUE squad (911) unless injuries are clearly minor.
  - clearly state location
  - describe injuries
7. Stay with and keep victim(s) warm.
8. Notify Facility Emergency Coordinator.
9. Transport victim(s) to a nearby medical center if:
  - A. Injury is not serious, but requires medical attention (e.g., broken fingers, minor burns);
  - B. Victim(s) can move self without great pain.
10. Notify Sheriff, if necessary.
11. Apply FIRST AID
  - Landfill employees - Minor accidents, such as bee stings, minor cuts, and small burns may be treated on site by an employee with first aid training.



- Customers - First aid treatment should not be given to customers who have minor accidents at the site. However, personal information about the victim and a description of the accident should be obtained. The customer should be instructed to go to his doctor for examination and treatment, if required.

### **8.3.2 Procedures After an Accident**

- Accident Investigation - Site Manager should make a complete investigation of the accident and events up to the time of the accident. The investigation should be started as soon as possible after the accident. All witnesses to the accident and persons involved in the accident should be interviewed.
- Determination of Cause - After the facts about the accident have been gathered, the Site Manager should make a determination as to the cause(s) of the accident.
- Filing of Reports - The Site Manager should complete and file the appropriate accident report forms.
- Corrective Steps - After a thorough investigation and determination of the cause(s) of an accident, the Site Manager should take corrective steps to that the same type of accident will not re-occur. These corrective steps may take the form of repair of faulty equipment, installation of safety equipment, or instruction of personnel in safe operating procedures.
- Discussion with Employees - If it is determined that the cause(s) of the accident were related to employee work habits and that remedial safety instructions would be helpful, hold a meeting with site employees. Discuss the accident and the corrective measures which should be taken to prevent another accident. Instruct all employees in proper safety procedures which should be followed.
- Follow-up - The Site Manager should follow-up the corrective measures to make certain that proper safety precautions are being taken. All unsafe practices should be called to the attention of the employees.

## **8.4 Release of Contamination to Environment (Remedial Response)**

### **8.4.1 Response**

1. Determine location, extent, type, and if possible, cause of release. (e.g., leachate, gas, contaminated stormwater, fuel spill, etc.).
2. Notify Site Manager or other designated individuals, and implement safety and emergency response procedures.

At the end of the section is a list of individuals and emergency response agencies to contact.

3. Notify fire department. State clearly:
  - A. Location of landfill.
  - B. Location of contaminant release.
  - C. Extent of release.
  - D. Type of release.
  - E. Actions now being taken.
4. Notify proper authorities including (Designated State) "Hot Line".  
(It may be necessary to prepare a Corrective Action Program per state requirements.)

### **8.4.2 Follow-Up**

Unless the occurrence of a contaminant release is clearly due to very unusual circumstances, the landfill operators shall take corrective action to prevent recurrence of the release. The corrective action shall be approved by the appropriate state and local agencies.



A report shall be filed at the landfill by the Facility Emergency Coordinator in order to have further reference for inquiries by authorities or Chambers personnel. The report should state:

1. Time/date of incident or its discovery.
2. Type of release and effects.
3. Source.
4. Response and effectiveness.
5. Agencies contacted.
6. Corrective actions planned and scheduled.

#### **8.5 Hazardous or Other Unacceptable Materials**

In the event that a substance known to be or suspected of being hazardous is dumped from any vehicle at the waste disposal facility, the following actions should be taken immediately:

##### **8.5.1 The Observer**

1. Immediately report the incident to the Site Manager or foreman.
2. Avoid exposure to the substance in question.
3. Observe where the material was dumped, by whom (which vehicle), how much was dumped, whether the container appears sound or is leaking, and what the substance looked and smelled like. Such observations should only be made with extreme caution and with the utmost regard for safety. **DO NOT SNIFF THE SUBSTANCE.**
4. Ask the dumper of the suspect load where the material was picked up.
5. Isolate the approximate area of the suspected load before it is covered or mixed with wastes from other vehicles.
6. Ask the driver of the vehicle to remain at the dumping point to ensure adequate vehicle identification. If the driver attempts to leave the dumping point, the observer should inform the scale house clerk and the Site Manager.

##### **8.5.2 Site Manger**

1. Notify the DEQ and appropriate local agencies.
2. Record all pertinent facts regarding vehicle, including but not limited to: name of carting company; license plate number; where the load was picked up, if known; any visible evidence identifying the waste substance; and quantity and state of the substance (e.g., solid or liquid or if contained or loose).
3. Maintain careful records of other costs incurred as a result of the dumping incident including (but not limited to) security costs in isolating the area, costs of removal (by contract or otherwise) of the suspect material, other costs of intermediate or ultimate treatment and/or disposal, and any other pertinent costs.
4. Coordinate the removal of the unacceptable waste with the proper authorities.

##### **8.5.3 Undumped Load**

If, Before a waste load can be dumped (e.g. during inspection), it is discovered to contain, or is suspected of containing hazardous or other unacceptable materials, the same reporting procedures by the Observer and Site Manager as described for the dumped loads still apply, except concerning the dumping itself. In addition:



1. Inform the driver that his load is unacceptable and why.
2. Do not permit the load to be dumped.
3. Suggest to the driver that he phone (State agency) to determine what he should do with the load.

#### 8.6 Uncooperative Customers

The following actions are recommended if a customer will not obey site rules or cooperate with site personnel.

1. If the customer is creating a substantial problem involving his or others' safety, or significantly interfering with disposal operations, the Site Manager will decide what action should be taken.
2. If the customer is creating a minor nuisance and does not respond to polite suggestions, the Site Manager should record the vehicle description and license number, and report the incident to home office management.
3. In a case where a customer causes or threatens to cause harm to landfill property or personnel, or otherwise interferes with safe operation of the landfill, the Site Manager should contact the Sheriff.

#### 8.7 Inclement Weather

##### 8.7.1 Operation in Wet Weather

###### Problem

MUDDY LOADING AREA

###### Solution

- 1) Stockpile well-drained soil and apply as necessary.
- 2) Keep compactors off area; use dozers on unloading area. Unload and move refuse perpendicular to area.
- 3) Grade unloading area slightly to permit runoff.

MUD CARRIED ONTO ACCESS AND PUBLIC ROADS 1) Carefully scrape mud from pavement.

- 2) Provide a tire wash to rinse trucks.

COVER IS WET/UNWORKABLE

- 1) Maintain compacted, sloped stockpiles.
- 2) Use alternate cover approved by permit.

##### 8.7.2 Operation in Cold Weather

###### Problem

COVER SOIL (FREEZES)

###### Solution

- 1) Continually cut and strip soil.
- 2) Maintain well-drained soil/sand.
- 3) Use hydraulic rippers on frozen soil.

SNOW BLOCKED ACCESS ROADS

- 1) Use tractor to clear snow from roads



### **8.7.3 Preparation for Inclement Weather**

- Rain or Snow:
  - Wet Weather Areas - should be prepared during periods of dry soil conditions. The wet weather area should be constructed close to an all weather road. Work on the wet-weather area can be performed at various times when personnel and equipment are not required for other higher priority assignment.
  - All Weather Roads - should be repaired in the fall and spring, since asphalt does not repair well in cold (winter) weather.
  - Drainage Ditches - drainage structures, ditches, and sediment control should be checked to ensure they are in good repair and free of debris prior to anticipated heavy rains.
  - Temporary (Operations Area) Drainage Control - cover material, stone, and corrugated metal pipe, should be stockpiled for use in an emergency situation.
- Wind:
  - When periods of high wind are predicted, litter fencing should be moved to close proximity of the working face and in the expected downwind direction. Cover may be required frequently during the day.



## EMERGENCY RESPONSE TELEPHONE NUMBERS

EMERGENCY .....	911
FIRE DEPARTMENT.....	662-489-3631
Pontotoc, MS POLICE DEPT .....	662-489-7804
Pontotoc CO. SHERIFF'S OFFICE.....	662-489-3111
AMBULANCE.....	662-489-5500
HOSPITAL.....	662-489-5510
BOARD OF SUPERVISORS .....	662-489-3986
CHANCERY CLERK.....	662-489-3900
MS DEPT. OF POLLUTION CONTROL.....	Switchboard 662-961-5171 Spill notification 662-961-5258 after hours 1-800-222-6362
National Response Center Hotline .....	1-800-424-8802
Toxic Release Inventory.....	1-800-424-9346
MS Emergency Management Agency .....	662-509-8950





## Stormwater Permit

**STATE OF MISSISSIPPI**  
HALEY BARBOUR  
GOVERNOR  
**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**  
TRUDY D. FISHER, EXECUTIVE DIRECTOR

October 25, 2010

CERTIFIED MAIL – 7008 3230 0001 9671 8865  
Mr. Rick Faucette  
Chairman  
Three Rivers Solid Waste Management Authority  
PO Box 690  
Pontotoc, MS 38863

Dear Mr. Faucette:

Re: Three Rivers Regional Landfill  
Pontotoc County  
Water Ref. No.MSS048917

Enclosed please find the environmental permit referenced above. Please note the limitations, schedules of compliance, monitoring requirements, and monitoring reporting dates found in this permit.

Permit No. MSS048917 is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law, Miss. Code Ann. Sections 49-17-1, et seq. (Rev. 2003). Any appeal of these permit actions must be made within the 30-day period provided for in Miss. Code Ann. Section 49-17-29(4)(b)(Rev. 2003).

We encourage you to take advantage of our new electronic Discharge Monitoring Reports (eDMR) program. This secure web based program enables facilities to submit their DMRs electronically instead of by mail. Additional information about MDEQ's eDMR program is available at the following website: <http://etempo.deq.state.ms.us>. If your facility desires to participate, please email the help desk at: [eDMR\\_HelpDesk@deq.state.ms.us](mailto:eDMR_HelpDesk@deq.state.ms.us), or contact Brad Kennedy at (601)961-5091.

Sincerely,

A handwritten signature in black ink that reads "Lynn Chambers".

Lynn Chambers  
Mining and Solid Waste Management Branch  
Environmental Permits Division

cc: DID, NRO, Jason Bridges ECED

1421 PER20090003



## State of Mississippi



### WATER POLLUTION CONTROL PERMIT

Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System

#### THIS CERTIFIES

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill  
1904 Pontotoc Parkway West  
Pontotoc, MS  
Pontotoc County

has been granted permission to discharge wastewater in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit. This permit is issued in accordance with the provisions of the Mississippi Water Pollution Control Law (Section 49-17-1 et seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder, and under authority granted pursuant to Section 402(b) of the Federal Water Pollution Control Act.

**Mississippi Environmental Quality Permit Board**

**Mississippi Department of Environmental Quality**

Issued/Modified: OCT 12 2010

Expires: SEP 30 2015

Permit No. MSS048917

Agency Interest # 1421



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**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Subject Item Inventory

Permit Number: MSS048917

Activity ID No.: PER20090003

**Subject Item Inventory:**

ID	Designation	Description
AI1421		32,973,000 yd <sup>3</sup> MSWLF
RPNT3	MSS048917-001	Outfall 001 (Non-contact Storm Water)
RPNT4	MSS048917-002	Outfall 002 (Non-contact Storm Water)
RPNT5	MSS048917-007	Outfall 007 (Non-contact Storm Water)
RPNT6	MSS048917-008	Outfall 008 (Non-contact Storm Water)
RPNT7	MSS048917-009	Outfall 009 (Non-contact Storm Water)
RPNT8	MSS048917-010	Outfall 010 (Non-contact Storm Water)

**Receiving Stream Relationships:**

Subject Item	Relationship	Receiving Stream
RPNT3 Outfall 001 (Non-contact Storm Water)	Discharges Into	Unnamed Creek
	Then Into	Lappatubby Creek
RPNT4 Outfall 002 (Non-contact Storm Water)	Discharges Into	Unnamed Creek
	Then Into	Lappatubby Creek
RPNT5 Outfall 007 (Non-contact Storm Water)	Discharges Into	Unnamed Creek
	Then Into	Lappatubby Creek
RPNT6 Outfall 008 (Non-contact Storm Water)	Discharges Into	Unnamed Creek
	Then Into	Lappatubby Creek
RPNT7 Outfall 009 (Non-contact Storm Water)	Discharges Into	Unnamed Creek
	Then Into	Lappatubby Creek
RPNT8 Outfall 010 (Non-contact Storm Water)	Discharges Into	Unnamed Creek

**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Subject Item Inventory

Permit Number: MSS048917

Activity ID No.: PER20090003

Subject Item	Relationship	Receiving Stream
RPNT8 Outfall 010 (Non-contact Storm Water)	Then Into	Johns Creek

**KEY**

ACT = Activity

AREA = Area

CONT = Control Device

IA = Insignificant Activity

RPNT = Release Point

AI = Agency Interest

CAFO = Concentrated Animal Feeding Operation

EQPT = Equipment

MAFO = Animal Feeding Operation

TRMT = Treatment

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Outfall 001 (Non-contact Storm Water)

RPNT0000000003: MSS048917-001

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Chemical Oxygen Demand (C OD) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Semiannually	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	*****	*****	*****	*****	Report Annual Average	90 Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Turbidity Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	NTU	Semiannually	Grab Sampling	Jan-Dec
<i>Zinc Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Outfall 002 (Non-contact Storm Water)

**RPNT0000000004: MSS048917-002**

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Chemical Oxygen Demand (COD) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Semiannually	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	*****	*****	*****	*****	Report Annual Average	90 Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Turbidity Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	NTU	Semiannually	Grab Sampling	Jan-Dec
<i>Zinc Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Outfall 007 (Non-contact Storm Water)

**RPNT0000000005: MSS048917-007**

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Chemical Oxygen Demand (C OD) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Semiannually	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	*****	*****	*****	*****	Report Annual Average	90 Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Turbidity Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	NTU	Semiannually	Grab Sampling	Jan-Dec
<i>Zinc Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Outfall 008 (Non-contact Storm Water)  
 RPNT0000000006: MSS048917-008

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Chemical Oxygen Demand (C OD) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Semiannually	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	*****	*****	*****	*****	Report Annual Average	90 Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Turbidity Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	NTU	Semiannually	Grab Sampling	Jan-Dec
<i>Zinc Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Outfall 009 (Non-contact Storm Water)

RPNT0000000007: MSS048917-009

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Chemical Oxygen Demand (C OD) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Semiannually	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	*****	*****	*****	*****	Report Annual Average	90 Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Turbidity Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	NTU	Semiannually	Grab Sampling	Jan-Dec
<i>Zinc Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec



## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Outfall 010 (Non-contact Storm Water)

RPNT0000000008: MSS048917-010

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Chemical Oxygen Demand (C OD) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Semiannually	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	*****	*****	*****	*****	Report Annual Average	90 Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Turbidity Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	NTU	Semiannually	Grab Sampling	Jan-Dec
<i>Zinc Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec

# Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

**AI0000001421 32,973,000 yd<sup>3</sup> MSWLF:**

## Limitation Requirements:

Condition No.	Parameter	Condition
L-1		There shall be no discharge of floating solids or visible foam in other than trace amounts. [WPC-2 Section II.2]
L-2		The discharges shall not cause the occurrence of a visible sheen on the surface of the receiving waters. [WPC-2 Section II.2]
L-3		Samples taken in compliance with the monitoring requirements specified in this permit shall be taken at the nearest accessible point after final treatment but prior to mixing with the receiving stream or as otherwise specified in this permit. If sufficient rainfall does not occur to collect the required sample, this fact shall be reported in lieu of sampling results. [WPC-1 Chapter One Section IV.A(28)]

## Record-Keeping Requirements:

Condition No.	Condition
R-1	Recording of Results For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall maintain records of all information obtained from such monitoring including: <ol style="list-style-type: none"><li>(1) The exact place, date, and time of sampling;</li><li>(2) The dates the analyses were performed;</li><li>(3) The person(s) who performed the analyses;</li><li>(4) The analytical techniques, procedures or methods used; and</li><li>(5) The results of all required analyses. [WPC-1 Chapter One Section IV.A(29)a]</li></ol>

**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

**AI0000001421 (continued):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-1	<p>Reporting</p> <p>Monitoring results obtained during the previous reporting period shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1) POSTMARKED NO LATER THAN THE 28TH DAY OF THE JANUARY FOLLOWING THE COMPLETED REPORTING PERIOD. Copies of these, and all other reports required herein, shall be signed in accordance with Chapter One Sections I.C. and I.E. of the Mississippi Wastewater Permit Regulations, and shall be submitted to the Mississippi Environmental Quality Permit Board at the following address:</p> <p>Mississippi Department of Environmental Quality Office of Pollution Control P.O. Box 2261 Jackson, Mississippi 39225. [WPC-1 Chapter One Section IV.A(15)c(1)]</p>
S-2	<p>Reporting Requirements - Planned Changes</p> <p>The permittee shall give notice to the Permit Board as soon as possible of any planned physical alterations or additions, including but not limited to, a change of operation to the permitted facility. Notice is required in the circumstances that follow:</p> <p>(1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether the facility is a new source in 40 CFR 122.29(b); or</p> <p>(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are not subject to either effluent limitations in the permit or notification requirements under 40 CFR 122.42(a)(1).</p> <p>(3) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan; [WPC-1 Chapter One Section IV.A(15)a]</p>
S-3	<p>Reporting Requirements - Anticipated Noncompliance</p> <p>The permittee shall give advance notice to the Permit Board of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. [WPC-1 Chapter One Section IV.A(15)b]</p>

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Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

**AI0000001421 (continued):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-4	<p>Noncompliance Notification - Twenty-Four Hour Reporting</p> <p>(1) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and/or prevent recurrence of the noncompliance.</p> <p>(2) The following shall be included as information which must be reported within 24 hours under this paragraph.</p> <ul style="list-style-type: none"><li>(i) Any unanticipated bypass which exceeds any effluent limitation in the permit.</li><li>(ii) Any upset which exceeds any effluent limitation in the permit.</li><li>(iii) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Permit Board in the permit to be reported within 24 hours.</li><li>(iv) The Executive Director may waive the written report on a case-by-case basis for reports under paragraph (1) of this section if the oral report has been received within 24 hours. [WPC-1 Chapter One Section IV.A.(29)e]</li></ul>
S-5	<p>Noncompliance Notification - Other Noncompliance</p> <p>The permittee shall report all instances of noncompliance not reported under the twenty-four hour reporting requirements, at the time monitoring reports are submitted or within 30 days from the end of the month in which the noncompliance occurs. The reports shall contain the same information as is required under the twenty-four hour reporting requirements contained in this permit. [WPC-1 Chapter One Section IV.A.(29)f]</p>
S-6	<p>Noncompliance Notification - Other Information</p> <p>Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Permit Board, it shall promptly submit such facts or information. [WPC-1 Chapter One Section IV.A.(29)g]</p>
S-7	<p>Expiration of Permit</p> <p>At least 180 days prior to the expiration date of this permit pursuant to the State law and regulation, the permittee who wishes to continue to operate under this permit shall submit an application to the Permit Board for reissuance. The Permit Board may grant permission to submit an application later than this, but no later than the expiration date of the permit. [WPC-1 Chapter One Section V.B(1)]</p>

**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER200900003

**AI0000001421 (continued):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-8	Requirements Regarding Cooling and Boiler Water Additives  Notification shall be made to the permitting authority in writing not later than sixty (60) days prior to initiating the addition of any chemical product to the cooling water and/or boiler water which is subject to discharge, other than those previously approved and/or used. Such notification should include, but not be limited to:  (1) Name and composition of the proposed additive, (2) Proposed discharge concentration, (3) Dosage addition rates, (4) Frequency of use, (5) EPA registration, if applicable, and (6) Aquatic species toxicological data.  Written approval must be received from the permitting authority prior to initiating use. [WPC-1 Chapter One Section IV.A(14)]

**Narrative Requirements:**

Condition No.	Condition
T-1	Definitions: General  The permittee shall refer to WPC-1, Chapter 1, Section I.A for definitions of any permit term not specified in this permit. [WPC-1 Chapter One Section I.A]
T-2	Definitions: Monthly Average  "Monthly Average" means the average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during the month. The monthly average for fecal coliform bacteria is the geometric mean of "daily discharges" measured during the calendar month. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero. [WPC-1 Chapter One Section I.A(40)]

**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

**AI0000001421 (continued):**

**Narrative Requirements:  
Definitions:**

Condition No.	Condition
T-3	Definitions: Daily Discharge "Daily discharge" means the "discharge of a pollutant" measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily average" is calculated as the average measurement of the discharge of the pollutant over the day. [WPC-1 Chapter One Section I.A(14)]
T-4	Definitions: Daily Maximum "Daily maximum" means the highest "daily discharge" over a calendar month. [WPC-1 Chapter One Section I.A(15)]
T-5	Definitions: Toxic Pollutants "Toxic pollutants" means any pollutant listed as toxic under Section 307(a)(1) or, in the case of "sludge use or disposal practices", any pollutant identified in regulations implementing Section 405(d) of the Clean Water Act. [WPC-1 Chapter One Section I.A]
T-6	Definitions: Hazardous Substances "Hazardous substances" are defined in 40 CFR 116.4. [40 CFR 116.4]
T-7	Definitions: Weekly Average "Weekly average" means the average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week. The weekly average for fecal coliform bacteria is the geometric mean of all "daily discharges" measured in a calendar week. In computing the geometric mean for fecal coliform bacteria, one (1) shall be substituted for sample results of zero. For self-monitoring purposes, the value to be reported is the single highest weekly average computed during a calendar month. [WPC-1 Chapter One Section I.A(76)]

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Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

**AI0000001421 (continued):**

## Narrative Requirements:

### Definitions:

Condition No.	Condition
T-8	<p>Definitions: Quarterly Average</p> <p>"Quarterly Average" means the average of "daily discharges" over a three month period, calculated as the sum of all "daily discharges" measured during the quarter divided by the number of "daily discharges" measured during the quarter. The quarterly average for fecal coliform bacteria is the geometric mean of "daily discharges" measured during the quarter. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero. [WPC-1 Chapter One Section I.A(26)]</p>
T-9	<p>Definitions: Maximum Monthly Average</p> <p>Maximum Monthly Average means the highest "monthly average" over a monitoring period. [40 CFR 122]</p>
T-10	<p>Definitions: Quarterly Maximum</p> <p>"Quarterly Maximum" means the highest "daily discharge" measured over a three-month period. [WPC-1 Chapter One Section I.A(57)]</p>
T-11	<p>Definitions: Yearly Average</p> <p>"Yearly Average" means the average of "daily discharges" over a calendar year, calculated as the sum of all "daily discharges" measured during the calendar year divided by the number of "daily discharges" measured during the calendar year. The yearly average for fecal coliform bacteria is the geometric mean of "daily discharges" during the calendar year. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero. [WPC-1 Chapter One Section I.A(77)]</p>
T-12	<p>Definitions: Yearly Maximum</p> <p>"Yearly Maximum" means the highest "daily discharge" measured over a calendar year. [WPC-1 Chapter One Section I.A(78)]</p>
T-13	<p>Definitions: Submitted</p> <p>Except as specifically defined, or otherwise noted, in an applicable regulation or permit, any report, application, or other document or information that is required by these regulations, or by a permit issued by the Permit Board, to be submitted to the Commission, Permit Board, or MDEQ shall be deemed submitted only upon its receipt by MDEQ. [WPC-1 Chapter One]</p>

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Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

## AI0000001421 (continued):

### Narrative Requirements:

Condition No.	Condition
T-14	<p>The permittee shall achieve compliance with the effluent limitations specified for discharge in accordance with the following schedule:</p> <ul style="list-style-type: none"><li>a. Upon permit issuance.</li><li>b. Permittee shall implement the submitted Storm Water Pollution Prevention Plan (SWPPP), with the Best Management Practices (BMPs) for the prevention of storm water contamination during construction, development, and operation of the landfill and shall submit amended SWPPP upon commencement of any major updating or expansion activities of the landfill.</li><li>c. During the first, second, and fourth year from the time the sedimentation ponds are constructed, samples shall be taken from the sedimentation ponds and tested for priority pollutants. The samples should consist of a grab sample of all the priority pollutants listed in 40 CFR Part 122, Appendix D, Tables II and III and shall be reported on a separate document attached to the annual discharge monitoring report. [WPC-1 Chapter One Section IV.A(9)]</li></ul>
T-15	<p>Within 14 days after either an interim or final date of compliance specified by this permit, the permittee shall provide the Permit Board with written notice of his compliance or noncompliance with the requirements or conditions specified by that date. [WPC-1 Chapter One Section IV.A(10)]</p>
T-16	<p>Inspections for erosion and sediment controls effecting outfalls 001, 002, 007, 008, 009, and 010 shall be conducted in accordance with the MDEQ Monthly Inspection Report and Certification Form for Erosion and Sediment Controls. [Compliance Use]</p>
T-17	<p>Representative Sampling</p> <p>Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored wastewater. The first discharge that occurs each six-month period must be sampled. At least one discharge resulting from a storm greater than 0.1 inches in magnitude and occurring at least 72 hours from a previously measurable storm greater than 0.1 inch rainfall must also be sampled. If such an event does not occur, then only the first sampled discharge test results shall be included in the calculation and reporting of the data submitted for that six-month period. [WPC-1 Chapter One Section IV.A(28)e]</p>
T-18	<p>Reporting</p> <p>If the results for a given sample analysis are such that any parameter is not detected at or above the minimum level for the test method used, a value of zero will be used for that sample in calculating an arithmetic mean value for the parameter. If the resulting calculated arithmetic mean value for that reporting period is zero, the permittee shall report "NODI = B" on the DMR. For each quantitative sample value that is not detectable, the test method used and the minimum level for that method for that parameter shall be attached to and submitted with the DMR. The permittee shall then be considered in compliance with the appropriate effluent limitation and/or reporting requirement. [WPC-1 Chapter Two Section VI.G]</p>



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Facility Requirements

Permit Number: MSS048917

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## AI0000001421 (continued):

### Narrative Requirements:

Condition No.	Condition
T-19	<p>Reporting</p> <p>If the permittee monitors any pollutant as prescribed in the permit more frequently than required by the permit using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Permit Board. [WPC-1 Chapter One Section IV.A(15)c(2)]</p>
T-20	<p>Reporting</p> <p>Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Permit Board in the permit. [WPC-1 Chapter One Section IV.A(15)c(3)]</p>
T-21	<p>Test Procedures</p> <p>Test procedures for the analysis of pollutants shall include those set forth in 40 CFR 136 or alternative procedures approved and/or promulgated by EPA. [WPC-1 Chapter One Section IV.A(30)]</p>
T-22	<p>Records Retention</p> <p>All records and results of monitoring activities required by this permit, including calibration and maintenance records, shall be retained by the permittee for a minimum of three (3) years, unless otherwise required or extended by the Permit Board, copies of which shall be furnished to the Department upon request. [WPC-1 Chapter One Section IV.A(29)a]</p>
T-23	<p>Falsifying Reports</p> <p>Any permittee who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required by the Permit Board to be maintained as a condition in a permit, or who alters or falsifies the results obtained by such devices or methods and/or any written report required by or in response to a permit condition, shall be deemed to have violated a permit condition and shall be subject to the penalties provided for a violation of a permit condition pursuant to Section 49-17-43 of the Code. [WPC-1 Chapter One Section IV.A(29)d]</p>

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Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

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## AI0000001421 (continued):

### Narrative Requirements:

Condition No.	Condition
T-24	<p>Facility Expansion and/or Modification</p> <p>Any facility expansion, production increases, process modifications, changes in discharge volume or location or other changes in operations or conditions of the permittee which may result in a new or increased discharge of waste, shall be reported to the Permit Board by submission of a new application for a permit pursuant to Section II.A. of the Mississippi Wastewater Regulations, or if the discharge does not violate effluent limitations specified in the permit, by submitting to the Permit Board a notice of a new or increased discharge. [WPC-1 Chapter One Section IV.A(14)]</p>
T-25	<p>Duty to Comply</p> <p>The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. [WPC-1 Chapter One Section IV.A(2)]</p>
T-26	<p>Proper Operation, Maintenance and Replacement</p> <p>The permittee shall at all times properly operate, maintain, and when necessary, promptly replace all facilities and systems of collection, treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. Proper replacement includes maintaining an adequate inventory of replacement equipment and parts for prompt replacement when necessary to maintain continuous collection and treatment of wastewater. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. [WPC-1 Chapter One Section IV.A(18)]</p>
T-27	<p>Duty to Mitigate</p> <p>The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of the permit that has a reasonable likelihood of adversely affecting human health or the environment. [WPC-1 Chapter One Section IV.A(19)]</p>
T-28	<p>Bypassing</p> <p>The permittee shall comply with the terms and conditions regarding bypass found in 40 CFR 122.41(m). [40 CFR 122.41(m)]</p>

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**AI0000001421 (continued):**

**Narrative Requirements:**

Condition No.	Condition
T-29	<p>Bypassing - Definitions</p> <p>"Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.</p> <p>"Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. [40 CFR 122.41(m)]</p>
T-30	<p>Bypassing - Bypass not exceeding limitations</p> <p>The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the notice and prohibition provisions of the bypass requirements in this permit. [40 CFR 122.41(m)]</p>
T-31	<p>Bypassing -Notice</p> <p>Anticipated bypass-</p> <p>If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.</p> <p>Unanticipated bypass-</p> <p>The permittee shall submit notice of an unanticipated bypass as required by the twenty-four hour reporting requirements set forth in this permit. [40 CFR 122.41(m)]</p>

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Facility Requirements

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## AI0000001421 (continued):

### Narrative Requirements:

Condition No.	Condition
T-32	<p>Bypassing- Prohibition of Bypass</p> <p>(1) Bypass is prohibited, and the Commission may take enforcement action against a permittee unless:</p> <p>(i) Bypass was unavoidable to prevent loss of life, personal injury, or sever property damage.</p> <p>(ii) There was no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and</p> <p>(iii) The permittee submitted notices as required under the Twenty-Four Hour reporting requirements set forth in this permit.</p> <p>(2) The Commission may approve an anticipated bypass, after considering its adverse affects, if the Commission determines that it will meet the three conditions listed above in paragraph (1) of this permit condition. [40 CFR 122.41(m)]</p>
T-33	<p>Upsets</p> <p>The permittee shall meet the conditions of 40 CFR 122.41(n) regarding "Upsets" and as in the upset requirements of this permit. [WPC-1 Chapter One Section IV.A(27)]</p>
T-34	<p>Upsets- Definition</p> <p>"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation. [WPC-1 Chapter One Section IV.A(27)]</p>
T-35	<p>Upsets - Effect of an Upset</p> <p>An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the "conditions necessary for demonstration of upset" requirements of this permit are met. Any determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, shall not constitute final administrative action subject to judicial review. [WPC-1 Chapter One Section IV.A(27)]</p>

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Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER200900003

**AI0000001421 (continued):**

**Narrative Requirements:**

Condition No.	Condition
T-36	<p>Upsets - Conditions necessary for demonstration of upset</p> <p>A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:</p> <ul style="list-style-type: none"><li>(1) An upset occurred and that the permittee can identify the cause(s) of the upset;</li><li>(2) The permitted facility was at the time being properly operated;</li><li>(3) The permittee submitted notice of the upset as required in 40 CFR 122.41(L)(6)(ii)(B)(24-hour notice of noncompliance); and</li><li>(4) The permittee complied with any remedial measures required under 40 CFR 122.41(d) (Duty to Mitigate). [WPC-1 Chapter One Section IV.A(27)]</li></ul>
T-37	<p>Upsets - Burden of proof</p> <p>In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof. [WPC-1 Chapter One Section IV.A(27)]</p>
T-38	<p>Removed Substances</p> <p>Solids, sludges, filter backwash, or other residuals removed in the course of treatment or control of wastewater shall be disposed of in a manner such as to prevent such materials from entering State waters and in a manner consistent with the Mississippi Solid Waste Disposal Act, the Federal Resource Conservation and Recovery Act, and the Mississippi Water Pollution Control Act. [WPC-1 Chapter One Section IV.A(21)]</p>
T-39	<p>Power Failures</p> <p>If electric power is required, in order to maintain compliance with the conditions and prohibitions of the permit, the permittee shall either:</p> <ul style="list-style-type: none"><li>(1) Provide an alternative power source to operate the wastewater control facilities; or, if such alternative power source is not in existence, and no date for its implementation appears in the permit,</li><li>(2) Halt, reduce, or otherwise control production and/or all wastewater flows upon reduction, loss, or failure of the primary source of power to the wastewater control facilities. [WPC-1 Chapter One Section IV.A(22)]</li></ul>

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Facility Requirements

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**AI0000001421 (continued):**

## Narrative Requirements:

Condition No.	Condition
T-40	Inspection and Entry <p>The permittee shall allow any authorized Commission representative to enter the permittee's premises at any reasonable time, to have access to and copy any applicable records, to inspect process facilities, treatment works, monitoring methods or equipment or to take samples, as authorized by Section 49-17-21 of the Code. In the event of investigation during an emergency response action, a reasonable time shall be any time of the day or night. Follow-up investigations subsequent to the conclusion of the emergency event shall be conducted at reasonable times. [WPC-1 Chapter One Section IV.A(17)]</p>
T-41	Transfer of Ownership or Control <p>This permit is not transferable to any person without proper modification of this permit following procedures found in WPC-1, Chapter 1, Section V.C. [WPC-1 Chapter One Section V.C]</p>
T-42	Signatory Requirements <p>All applications, reports, or information submitted to the Permit Board shall be signed and certified. [WPC-1 Chapter One Section II.C]</p>
T-43	Signatory Requirements - Application Signatures <p>All permit applications shall be signed as follows:</p> <p>(1) For a corporation: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (i) a president, secretary, treasurer or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy - or decision-making function for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.</p> <p>(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or</p> <p>(3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. [WPC-1 Chapter One Section II.C]</p>

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Permit Number: MSS048917

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## AI0000001421 (continued):

### Narrative Requirements:

Condition No.	Condition
T-44	<p>Signatory Requirements - Reports and Other Information</p> <p>All reports required by the permit and other information requested by the Permit Board shall be signed by a person described by the application signature requirements in this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:</p> <ol style="list-style-type: none"><li>(1) The authorization is made in writing by a person described by the application signature requirements;</li><li>(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and</li><li>(3) The written authorization is submitted to the Permit Board. [WPC-1 Chapter One Section II.C]</li></ol>
T-45	<p>Signatory Requirements - Changes to Authorization</p> <p>If an authorization under the signatory requirements of this permit is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the signatory requirements of this permit must be submitted to the Permit Board prior to or together with any reports, information, or applications. [WPC-1 Chapter One Section II.C]</p>
T-46	<p>Signatory Requirements - Certification</p> <p>Any person signing a document under the signatory requirements stated in this permit shall make the following certification:</p> <p>"I certify under penalty of law that this document and all attachments were prepared under the 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." [WPC-1 Chapter One Section II.C]</p>

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**AI0000001421 (continued):**

## Narrative Requirements:

Condition No.	Condition
T-47	<p>Availability of Records</p> <p>Except for information deemed to be confidential under the Mississippi Code Ann. 49-17-39 and 40 CFR 123.41, file information relating to this permit shall be made available for public inspection and copying during normal business hours at the office of the Department of Environmental Quality in Jackson, Mississippi. Written request must be provided in accordance with policies developed by the Commission and must state, specifically, records proposed for review, date proposed for review and copying requirements. [WPC-1 Chapter One Section III.E]</p>
T-48	<p>Duty to Provide Information</p> <p>The permittee shall furnish to the Permit Board within a reasonable time any relevant information which the Permit Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. The permittee shall also furnish to the Permit Board upon request, copies of records required to be kept by the permit. [WPC-1 Chapter One Section IV.A(16)]</p>
T-49	<p>Toxic Pollutants</p> <p>The permittee shall comply with any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) established under Section 307(a) of the Federal Water Pollution Control Act. [WPC-1 Chapter One Section IV.A(26)]</p>
T-50	<p>Toxic Pollutants Notification Requirements</p> <p>The permittee shall comply with the applicable provisions of 40 CFR 122.42. [WPC-1 Chapter One Section IV.A(26)]</p>
T-51	<p>Civil and Criminal Liability</p> <p>(1) Any person who violates a term, condition or schedule of compliance contained within this permit or the Mississippi Water Pollution Control Law is subject to the actions defined by law. (2) Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. (3) It shall not be the defense of the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [WPC-1 Chapter One Section IV.A(24)]</p>



**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

**AI0000001421 (continued):**

**Narrative Requirements:**

Condition No.	Condition
T-52	<p>Oil and Hazardous Substance Liability</p> <p>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 to under Section 311 of the Federal Water Pollution Control Act and applicable provisions under Mississippi Law pertaining to transportation, storage, treatment, or spillage of oil or hazardous substances. [WPC-1 Chapter One Section IV.A(23)]</p>
T-53	<p>Property Rights</p> <p>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 Federal, State, or local laws or regulations. [WPC-1 Chapter One Section V.E]</p>
T-54	<p>Severability</p> <p>The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. [WPC-1 Chapter One Section IV.A(25)]</p>
T-55	<p>Protection of Confidential Information</p> <p>(1) Pursuant to Miss. Code Ann. '49-17-39 and 40 CFR 123.41, the Permit Board shall make available to the public all information contained on any form and all public comments on such information. Effluent data and information concerning air or water quality shall also be made available to the public. Information that is determined by the Commission to be trade secrets shall not be disclosed to the public without prior consent of the source of such information. When a claim of confidentiality is made by a person in accordance with the provisions of Miss. Code Ann. '49-17-39, a recommendation on the questions of confidentiality shall be made by the Commission and forwarded to the Regional Administrator (or his/her designee) of EPA for his concurrence in such determination of confidentiality. [WPC-1 Chapter One Section III.F]</p>
T-56	<p>Protection of Confidential Information- continued</p> <p>(2) A copy of a State, UIC, or NPDES permit application, public notice, fact sheet, draft permit and other forms relating thereto, including written public comment and other reports, files and information relating to the application not classified as confidential information by the Commission pursuant to part (1) of this requirement, shall be available for public inspection and copying during normal business hours at the office of the Department in Jackson, Mississippi. [WPC-1 Chapter One Section III.F]</p>

# Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER200900003

**AI0000001421 (continued):**

## Narrative Requirements:

Condition No.	Condition
T-57	<p>Protection of Confidential Information- continued</p> <p>(3) Upon determination by the Commission that information submitted by a permit applicant is entitled to protection against disclosure as trade secrets, the information shall be so labeled and otherwise handled as confidential. Copies of the information and a notice of the Commission's action shall be forwarded to the Regional Administrator (or his/her designee). In making its determination of entitlement to protection as a trade secret, the Commission shall follow the procedure set forth in Miss. Code Ann. ' 49-17-39. In the event the Commission denies the claim of confidentiality, the applicant shall have, upon notification thereof, the right to appeal the Commission's determination in the same manner provided for other orders of the Commission. No disclosure, except to EPA, shall be allowed until any appeal from the determination of the Commission is completed. [WPC-1 Chapter One Section III.F]</p>
T-58	<p>Spill Prevention and Best Management Plans</p> <p>Any permittee which has above ground bulk storage capacity, of more than 1320 gallons or any single container with a capacity greater than 660 gallons, of materials and/or liquids (including but not limited to, all raw, finished and/or waste material) with chronic or acute potential for pollution impact on waters of the State and not subject to Mississippi Hazardous Waste Management Regulations or 40 CFR 112 (Oil Pollution Prevention) regulations shall provide secondary containment as found in 40 CFR 112 or equivalent protective measures such as trenches or waterways which would conduct any tank releases to a permitted treatment system or sufficient equalization or treatment capacity needed to prevent chronic/acute pollution impact. [WPC-1 Chapter One Section IV.A(12)a]</p>
T-59	<p>Reopener Clause</p> <p>This permit shall be modified, or alternately, revoked and reissued, to comply with any applicable effluent standard, limitation or storm water regulation issued or approved under Section 301(b)(2)(C), and (D), 304(b)(2), 307(a)(2) and 402(p) of the Federal Water Pollution Control Act if the effluent standard, limitation or regulation so issued or approved:</p> <ol style="list-style-type: none"><li>1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or</li><li>2. Controls any pollutant not limited in the permit. [WPC-1 Chapter One Section IV.F(1)]</li></ol>

# Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

## AI0000001421 (continued):

### Narrative Requirements:

Condition No.	Condition
T-60	<p>Closure Requirements</p> <p>Should the permittee decide to permanently close and abandon the premises upon which it operates, it shall provide a Closure Plan to the Permit Board no later than 90 days prior to doing so. This Closure Plan shall address how and when all manufactured products, by-products, raw materials, stored chemicals, and solid and liquid waste and residues will be removed from the premises or permanently disposed of on site such that no potential environmental hazard to the waters of the State will be presented. Closure plan(s) submitted to and approved by Mississippi Department of Environmental Quality for compliance with other environmental regulations will satisfy the closure requirements for those items specifically addressed in the closure plan(s) as long as the closure does not present a potential for environmental hazard to waters of the State. [WPC-1 Chapter One Section IV.A(11)]</p>
T-61	<p>Permit Actions</p> <p>The permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a modification of planned changes or anticipated noncompliance, does not stay any permit condition. [WPC-1 Chapter One Section V.C(5)]</p>

**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

**RPNT0000000003 (MSS048917-001) Outfall 001 (Non-contact Storm Water):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-1	The Permittee shall submit analytical results on an annual Discharge Monitoring Report (DMR): Due annually by the 28th of January. [WPC-1 Chapter One IV.A.15(c)]

**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**  
Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements  
Permit Number: MSS048917  
Activity ID No.: PER200900003

**RPNT00000000004 (MSS048917-002) Outfall 002 (Non-contact Storm Water):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-1	The Permittee shall submit analytical results on an annual Discharge Monitoring Report (DMR): Due annually by the 28th of January. [WPC-1 Chapter One IV.A.15(c)]

**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

**RPNT0000000005 (MSS048917-007) Outfall 007 (Non-contact Storm Water):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-1	The Permittee shall submit analytical results on an annual Discharge Monitoring Report (DMR): Due annually by the 28th of January. [WPC-1 Chapter One IV.A.15(c)]

**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**  
Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements  
Permit Number: MSS048917  
Activity ID No.: PER20090003

**RPNT0000000006 (MSS048917-008) Outfall 008 (Non-contact Storm Water):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-1	The Permittee shall submit analytical results on an annual Discharge Monitoring Report (DMR): Due annually by the 28th of January. [WPC-1 Chapter One IV.A.15(c)]

**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER200900003

**RPNT0000000007 (MSS048917-009) Outfall 009 (Non-contact Storm Water):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-1	The Permittee shall submit analytical results on an annual Discharge Monitoring Report (DMR): Due annually by the 28th of January. [WPC-1 Chapter One IV.A.15(c)]



**Permit to Discharge Wastewater in Accordance with National Pollutant Discharge Elimination System**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSS048917

Activity ID No.: PER20090003

**RPNT0000000008 (MSS048917-010) Outfall 010 (Non-contact Storm Water):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-1	The Permittee shall submit analytical results on an annual Discharge Monitoring Report (DMR): Due annually by the 28th of January. [WPC-1 Chapter One IV.A.15(c)]

## GENERAL INFORMATION

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill  
 1904 Pontotoc Parkway West  
 Pontotoc, MS  
 Pontotoc County

### Alternate/Historic Identifiers

ID	Alternate/Historic Name	User Group	Start Date	End Date
1421	Three Rivers Solid Waste Management Authority	Official Site Name	12/14/1993	
2811500042	Three Rivers SWMA, Three Rivers Reg LF	Air-AIRS AFS	10/12/2000	
230000042	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Air-Construction	4/27/1999	
230000042	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Air-Title V Operating	4/27/1999	4/1/2004
MSP090943	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Water - Pretreatment	4/27/1999	4/26/2004
MSP090943	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Water - Pretreatment	12/14/1993	12/13/1998
SW0580010427	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	SolidWaste - MSW Landfill	12/14/1993	12/14/2003
MSS048917	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Water - NPDES	4/27/1999	4/26/2004
MSS048917	Three Rivers Solid Waste Management Authority, the operation of Three Rivers	Water - NPDES	3/8/2005	2/28/2010
MSP090943	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Water - Pretreatment	3/8/2005	2/28/2010
230000042	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Air-Title V Operating	3/8/2005	2/28/2010
230000042	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Air-Title V Fee Customer	4/27/1999	
16231	Three Rivers Regional Solid Waste Management Authority, Pontotoc County Wa	Official Site Name	10/31/1995	10/31/1995
Authorized	Three Rivers Regional Solid Waste Management Authority, Pontotoc County Wa	SolidWaste - Tire Collection	10/31/1995	

**Basin:** Yazoo River Basin

**Section:** 23 **Township:** 9S **Range:** 2E

**Latitude:** 34° 17' 7" 86 tenths **Longitude:** 89° 3' 32" 52 tenths

**Location Description:** PG - Plant Entrance (General) Data collected by Nancy Moore. Date not given Imported from I-sys



Leachate Pretreatment

STATE OF MISSISSIPPI  
HALEY BARBOUR  
GOVERNOR  
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY  
TRUDY D. FISHER, EXECUTIVE DIRECTOR

November 1, 2010

CERTIFIED MAIL – 7008 3230 0001 9671 8889

Mr. Rick Faucette  
Chairman  
Three Rivers Solid Waste Management Authority  
PO Box 690  
Pontotoc, Mississippi 38863

Dear Mr. Faucette:

Re: Three Rivers Regional Landfill  
Pontotoc County  
Water Ref. No. MSP090943

Enclosed please find replacement pages for the Three Rivers Regional Landfill Pretreatment Permit that was issued on October 12, 2010. Administrative changes were made to the permit to create an annual DMR submittal to replace the monthly reporting of the semi-annual sampling of Arsenic and Lead for discharge to the Oxford POTW. Please note the limitations, schedules of compliance, and monitoring requirements have not been altered.

Permit No. MSP090943 is issued in accordance with the provisions of the Mississippi Air and Water Pollution Control Law (Sections 49-17-1, et seq., Mississippi Code of 1972). Any appeal of these permit actions must be made within the 30-day period provided for in Section 49-17-29(4)(b) Mississippi Code of 1972.

Should you have any questions or comments, please contact me at (601) 961-5117.

Sincerely,

A handwritten signature in black ink that reads "Lynn Chambers".

Lynn Chambers  
Environmental Permits Division

Enclosure

1421 PER20090004

Replacement  
Pages (X)



# State of Mississippi



## WATER POLLUTION CONTROL PERMIT

Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

### THIS CERTIFIES

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill  
1904 Pontotoc Parkway West  
Pontotoc, MS  
Pontotoc County

has been granted permission to discharge wastewater in accordance with effluent limitations, monitoring requirements and other conditions set forth in this permit. This permit is issued in accordance with the provisions of the Mississippi Water Pollution Control Law (Section 49-17-1 et seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder, and under authority granted pursuant to Section 402(b) of the Federal Water Pollution Control Act. The issuance of this permit does not relieve the permittee from complying with any requirements which Publicly Owned Treatment Works Authority may deem necessary as a prerequisite to the use of the Authority's sewage system and associated treatment works.

**Mississippi Environmental Quality Permit Board**

**Mississippi Department of Environmental Quality**

Issued/Modified: **OCT 1 2 2010**

Expires: **SEP 30 2015**

Permit No. **MSP090943**

Agency Interest # **1421**

\*\*\* Official MDEQ Permit - Version 1.1 \*\*\*

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# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Subject Item Inventory

Permit Number: MSP090943

Activity ID No.: PER20090004

## Subject Item Inventory:

ID	Designation	Description
AI1421	1421	MSW Landfill
RPNT1	MSP090943-001A	Outfall 001A (Process water discharged to Oxford POTW)
RPNT2	MSP090943-002	Outfall 002 (Process water discharged to Pontotoc POTW)
RPNT9	MSP090943-001B	Outfall 001B (Process water discharged to Oxford POTW)

## Receiving Stream Relationships:

Subject Item	Relationship	Receiving Stream
RPNT1 Outfall 001A (Process water discharged to Oxford POTW)	Discharges Into	Oxford POTW MS0029017
RPNT2 Outfall 002 (Process water discharged to Pontotoc POTW)	Discharges Into	Pontotoc POTW MS0058581
RPNT9 Outfall 001B (Process water discharged to Oxford POTW)	Discharges Into	Oxford POTW MS0029017

### KEY

ACT = Activity

AREA = Area

CONT = Control Device

IA = Insignificant Activity

RPNT = Release Point

AI = Agency Interest

CAFO = Concentrated Animal Feeding Operation

EQPT = Equipment

MAFO = Animal Feeding Operation

TRMT = Treatment



**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Subject Item Inventory

Permit Number: MSP090943

Activity ID No.: PER20090004

**KEY**

TRMT = Treatment



## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item: Outfall 001A (Process water discharged to Oxford POTW)**  
**RPNT0000000001: MSP090943-001A**

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	Report Monthly Average	Report Monthly Maximum	pounds per day	*****	Report Monthly Average	Report Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Flow Effluent</i>	Report Monthly Average	0.028 Monthly Maximum	Million Gallons per Day	*****	*****	*****	*****	On Each Occasion	Batch	Jan-Dec
<i>Oil and grease Effluent</i>	17.5 Monthly Average	23.4 Monthly Maximum	pounds per day	*****	*****	*****	*****	Twice per Month	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	467 Monthly Average	817 Monthly Maximum	pounds per day	*****	2000 Monthly Average	3500 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Weekly	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	467 Monthly Average	817 Monthly Maximum	pounds per day	*****	2000 Monthly Average	3500 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Zinc (Total Recoverable) Effluent</i>	*****	*****	*****	*****	Report Monthly Average	Report Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec





## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Subject Item: Outfall 002 (Process water discharged to Pontotoc POTW)  
 RPNT0000000002: MSP090943-002

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Ammonia Nitrogen, Total (as N) Effluent</i>	Report Monthly Average	40 Monthly Maximum	pounds per day	*****	Report Monthly Average	180 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Copper (Total Recoverable) Effluent</i>	*****	*****	*****	*****	0.005 Monthly Average	0.007 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Flow Effluent</i>	Report Monthly Average	0.028 Monthly Maximum	Million Gallons per Day	*****	*****	*****	*****	On Each Occasion	Batch	Jan-Dec
<i>Nickel (Total Recoverable) Effluent</i>	Report Monthly Average	Report Monthly Maximum	pounds per day	*****	Report Monthly Average	0.10 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Oil and grease Effluent</i>	Report Monthly Average	10 Monthly Maximum	pounds per day	*****	Report Monthly Average	Report Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>Oxygen Demand, biochemical, 5-day (20 degrees C) Effluent</i>	Report Monthly Average	47.5 Monthly Maximum	pounds per day	*****	Report Monthly Average	220 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec
<i>pH Effluent</i>	*****	*****	*****	6.0 Minimum	*****	9.0 Maximum	SU	Weekly	Grab Sampling	Jan-Dec
<i>Solids (Total Suspended) Effluent</i>	Report Monthly Average	47.5 Monthly Maximum	pounds per day	*****	Report Monthly Average	220 Monthly Maximum	mg/L	Twice per Month	Grab Sampling	Jan-Dec

## EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

**Subject Item:** Outfall 001B (Process water discharged to Oxford POTW)  
**RPN**T00000000009: MSP090943-001B

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Discharge Limitations						Monitoring Requirements			
	Quantity / Loading Average	Quantity / Loading Maximum	Quantity / Loading Units	Quality / Conc. Minimum	Quality / Conc. Average	Quality / Conc. Maximum	Quality / Conc. Units	Frequency	Sample Type	Which Months
<i>Arsenic (Total Recoverable) Effluent</i>	*****	*****	*****	*****	0.15 Annual Average	0.38 Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec
<i>Lead (Total Recoverable) Effluent</i>	*****	*****	*****	*****	Report Annual Average	Report Annual Maximum	mg/L	Semiannually	Grab Sampling	Jan-Dec



# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

## AI0000001421 (1421) MSW Landfill:

### Limitation Requirements:

Condition No.	Parameter	Condition
L-1		Wastewater discharges shall consist of leachate, landfill condensate, and equipment washwater generated at Three Rivers Regional Landfill. [WPC-1 Chapter One]
L-2		<p>Samples taken in compliance with the monitoring requirements specified in this permit shall be taken at the nearest accessible point after final treatment but prior to actual discharge into the POTW collection system or mixing with non-regulated waste streams. [WPC-1 Chapter One Section IV.A(28)]</p> <p>General Pretreatment Prohibitions</p> <p>In addition to those pollutants limited in the "Effluent Limitations and Monitoring Requirements" section of this permit, the following pollutants shall not be discharged into the POTW:</p> <ol style="list-style-type: none"><li>(1) Pollutants which create a fire or explosion hazard in the POTW, including but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;</li><li>(2) Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, unless the treatment works is specifically designed to accommodate such discharges;</li><li>(3) Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in interference;</li><li>(4) Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a discharge at a flow rate and/or pollutant concentration which will cause interference with the POTW;</li><li>(5) Heat in amounts which will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless the approval Authority, upon request of the POTW, approves alternate temperature limits;</li><li>(6) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;</li><li>(7) Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;</li><li>(8) Any trucked or hauled pollutants, except at discharge points designated by the POTW. [40 CFR 403.5(b)]</li></ol>
L-3		

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

AI0000001421 (continued):

## Record-Keeping Requirements:

Condition No.	Condition
R-1	Recording of Results  For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall maintain records of all information obtained from such monitoring including:  (1) The exact place, date, and time of sampling; (2) The dates the analyses were performed; (3) The person(s) who performed the analyses; (4) The analytical techniques, procedures or methods used; and (5) The results of all required analyses. [WPC-1 Chapter One Section IV.A(29)a]

## Submittal/Action Requirements:

Condition No.	Condition
S-1	Samples shall be taken once per year with a grab sample of all priority pollutants listed in 40 CFR Part 122, Appendix D, Tables II and III and shall be reported on a separate document attached to each December discharge monitoring report. [Other]
S-2	Oral Notification Requirements  The permittee shall notify the Mississippi Environmental Quality Permit Board and the POTW orally immediately upon becoming aware of the following: (1) A spill which would result in a discharge to the POTW or to State waters; (2) Any unanticipated bypass which exceeds any effluent limitation in the permit. (3) Any upset which exceeds any effluent limitation in the permit. (4) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Permit Board in the permit to be reported within 24 hours. [WPC-1 Chapter One Section IV.M]

**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**AI0000001421 (continued):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-3	<p>Reporting</p> <p>Monitoring results obtained during the previous reporting period shall be summarized and reported on a Discharge Monitoring Report Form (EPA No. 3320-1) POSTMARKED NO LATER THAN THE 28TH DAY OF THE MONTH FOLLOWING THE COMPLETED REPORTING PERIOD. Copies of these, and all other reports required herein, shall be signed in accordance with Chapter One Sections II.C. and II.E. of the Mississippi Wastewater Permit Regulations, and shall be submitted to the Mississippi Environmental Quality Permit Board at the following address:</p> <p>Mississippi Department of Environmental Quality Office of Pollution Control P.O. Box 2261 Jackson, Mississippi 39225. [WPC-1 Chapter One Section IV.A(15)c(1)]</p>
S-4	<p>Noncompliance Notification - Twenty-Four Hour Reporting</p> <p>(1) The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and/or prevent recurrence of the noncompliance.</p> <p>(2) The following shall be included as information which must be reported within 24 hours under this paragraph.                      (i) Any unanticipated bypass which exceeds any effluent limitation in the permit.                      (ii) Any upset which exceeds any effluent limitation in the permit.                      (iii) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Permit Board in the permit to be reported within 24 hours.                      (iv) The Executive Director may waive the written report on a case-by-case basis for reports under paragraph (1) of this section if the oral report has been received within 24 hours. [WPC-1 Chapter One Section IV.A(29)e]</p>

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

AI0000001421 (continued):

## Submittal/Action Requirements:

Condition No.	Condition
S-5	Noncompliance Notification - Other Noncompliance <p>The permittee shall report all instances of noncompliance not reported under the oral notification requirements or reporting requirements of this permit, at the time monitoring reports are submitted or within 30 days from the end of the month in which the noncompliance occurs. The reports shall contain the same information as is required under the reporting requirements contained in this permit. [WPC-1 Chapter One Section IV.A(29)f]</p>
S-6	Noncompliance Notification - Other Information <p>Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Permit Board, it shall promptly submit such facts or information. [WPC-1 Chapter One Section IV.A(29)g]</p>
S-7	Expiration of Permit <p>At least 180 days prior to the expiration date of this permit pursuant to the State law and regulation, the permittee who wishes to continue to operate under this permit shall submit an application to the Permit Board for reissuance. The Permit Board may grant permission to submit an application later than this, but no later than the expiration date of the permit. [WPC-1 Chapter One Section V.B(1)]</p>

## Narrative Requirements:

### Definitions:

Condition No.	Condition
T-1	Definitions: General

The permittee shall refer to WPC-1, Chapter 1, Section I.A for definitions of any permit term not specified in this permit. [WPC-1 Chapter One Section I.A]

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**AI0000001421 (continued):**

## Narrative Requirements: Definitions:

Condition No.	Condition
T-2	<p>Definitions: Monthly Average</p> <p>"Monthly Average" means the average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during the month. The monthly average for fecal coliform bacteria is the geometric mean of "daily discharges" measured during the calendar month. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero. [WPC-1 Chapter One Section I.A(40)]</p>
T-3	<p>Definitions: Daily Discharge</p> <p>"Daily discharge" means the "discharge of a pollutant" measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily average" is calculated as the average measurement of the discharge of the pollutant over the day. [WPC-1 Chapter One Section I.A(14)]</p>
T-4	<p>Definitions: Daily Maximum</p> <p>"Daily maximum" means the highest "daily discharge" over a calendar month. [WPC-1 Chapter One Section I.A(15)]</p>
T-5	<p>Definitions: Toxic Pollutants</p> <p>"Toxic pollutants" means any pollutant listed as toxic under Section 307(a)(1) or, in the case of "sludge use or disposal practices", any pollutant identified in regulations implementing Section 405(d) of the Clean Water Act. [WPC-1 Chapter One Section I.A]</p>
T-6	<p>Definitions: Hazardous Substances</p> <p>"Hazardous substances" are defined in 40 CFR 116.4. [WPC-1 Chapter One 116.4]</p>

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

AI0000001421 (continued):

## Narrative Requirements:

### Definitions:

Condition No.	Condition
T-7	<p>Definitions: Quarterly Average</p> <p>"Quarterly Average" means the average of "daily discharges" over a three month period, calculated as the sum of all "daily discharges" measured during the quarter divided by the number of "daily discharges" measured during the quarter. The quarterly average for fecal coliform bacteria is the geometric mean of "daily discharges" measured during the quarter. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero. [WPC-1 Chapter One Section I.A(26)]</p>
T-8	<p>Definitions: Quarterly Maximum</p> <p>"Quarterly Maximum" means the highest "daily discharge" measured over a three-month period. [WPC-1 Chapter One Section I.A(57)]</p>
T-9	<p>Definitions: Yearly Average</p> <p>"Yearly Average" means the average of "daily discharges" over a calendar year, calculated as the sum of all "daily discharges" measured during the calendar year divided by the number of "daily discharges" measured during the calendar year. The yearly average for fecal coliform bacteria is the geometric mean of "daily discharges" during the calendar year. In computing the geometric mean for fecal coliform bacteria, the value one (1) shall be substituted for sample results of zero. [WPC-1 Chapter One Section I.A(77)]</p>
T-10	<p>Definitions: Yearly Maximum</p> <p>"Yearly Maximum" means the highest "daily discharge" measured over a calendar year. [WPC-1 Chapter One Section I.A(78)]</p>
T-11	<p>Definitions: Submitted</p> <p>Except as specifically defined, or otherwise noted, in an applicable regulation or permit, any report, application, or other document or information that is required by these regulations, or by a permit issued by the Permit Board, to be submitted to the Commission, Permit Board, or MDEQ shall be deemed submitted only upon its receipt by MDEQ. [WPC-1 Chapter One]</p>



# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

## AI0000001421 (continued):

### Narrative Requirements:

Condition No.	Condition
T-12	The issuance of this permit does not relieve the permittee from complying with any requirements which the Publicly Owned Treatment Works (POTW) Authority may deem necessary as a prerequisite to the use of the Authority's sewage system and associated treatment works. [WPC-1 Chapter One Section IV.M]
T-13	The permittee shall achieve compliance with the effluent limitations specified for discharge in accordance with the following schedule: Upon Permit Issuance. [WPC-1 Chapter One Section IV.A(9)]
T-14	Within 14 days after either an interim or final date of compliance specified by this permit, the permittee shall provide the Permit Board with written notice of his compliance or noncompliance with the requirements or conditions specified to be completed by that date. [WPC-1 Chapter One Section IV.A(10)]
T-15	No Discharge of Wastewater to Surface Water
T-16	Facilities Operation  The permittee shall at all times properly operate, maintain, and when necessary, promptly replace all facilities and systems of collection, treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes adequate laboratory controls and appropriate quality assurance procedures. Proper replacement includes maintaining an adequate inventory of replacement equipment and parts for prompt replacement when necessary to maintain continuous collection and treatment of wastewater. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit. The Permit Board may require regular reporting of internal operational and maintenance parameters where necessary to confirm proper operation of a waste treatment system. [WPC-1 Chapter One Section IV.A(18)]
T-17	Representative Sampling  Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored wastewater. [WPC-1 Chapter One Section IV.A(28)e]

**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**AI000001421 (continued):**

**Narrative Requirements:**

Condition No.	Condition
T-18	<p>Reporting</p> <p>If the results for a given sample analysis are such that any parameter (other than fecal coliform) is not detected at or above the minimum level for the test method used, a value of zero will be used for that sample in calculating an arithmetic mean value for the parameter. If the resulting calculated arithmetic mean value for that reporting period is zero, the permittee shall report "NODI = B" on the DMR. For fecal coliform, a value of 1.0 shall be used in calculating the geometric mean. If the resulting fecal coliform mean value is 1.0, the permittee shall report "NODI = B" on the DMR. For each quantitative sample value that is not detectable, the test method used and the minimum level for that method for that parameter shall be attached to and submitted with the DMR. The permittee shall then be considered in compliance with the appropriate effluent limitation and/or reporting requirement. [WPC-1 Chapter One Section II.G]</p>
T-19	<p>Reporting</p> <p>If the permittee monitors any pollutant as prescribed in the permit more frequently than required by the permit using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Permit Board. [WPC-1 Chapter One Section IV.A(15)c(2)]</p>
T-20	<p>Reporting</p> <p>Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Permit Board in the permit. [WPC-1 Chapter One Section IV.A(15)c(3)]</p>
T-21	<p>Test Procedures</p> <p>Test procedures for the analysis of pollutants shall include those set forth in 40 CFR 136 or alternative procedures approved and/or promulgated by EPA. [WPC-1 Chapter One Section IV.A(30)]</p>
T-22	<p>Records Retention</p> <p>All records and results of monitoring activities required by this permit, including calibration and maintenance records, shall be retained by the permittee for a minimum of three (3) years, unless otherwise required or extended by the Permit Board, copies of which shall be furnished to the Department upon request. [WPC-1 Chapter One Section IV.A(29)a]</p>

**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**AI0000001421 (continued):**

**Narrative Requirements:**

Condition No.	Condition
T-23	<p>Falsifying Reports</p> <p>Any permittee who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required by the Permit Board to be maintained as a condition in a permit, or who alters or falsifies the results obtained by such devices or methods and/or any written report required by or in response to a permit condition, shall be deemed to have violated a permit condition and shall be subject to the penalties provided for a violation of a permit condition pursuant to Section 49-17-43 of the Code. [WPC-1 Chapter One Section IV.A(29)d]</p>
T-24	<p>Compliance with Permit Conditions</p> <p>All discharges authorized by the permit shall be consistent with the terms and conditions of the permit and the permittee shall make all reasonable efforts to meet any interim or final dates for compliance specified therein. [WPC-1 Chapter One Section IV.A(13)]</p>
T-25	<p>Facility Expansion and/or Modification</p> <p>Any facility expansion, production increases, process modifications, changes in discharge volume or location or other changes in operations or conditions of the permittee which may result in a new or increased discharge of waste, shall be reported to the Permit Board by submission of a new application for a permit pursuant to Chapter One, Section II.A. of the Mississippi Wastewater Regulations, or if the discharge does not violate effluent limitations specified in the permit, by submitting to the Permit Board a notice of a new or increased discharge. [WPC-1 Chapter One Section IV.A(14)]</p>
T-26	<p>Routine Reporting</p> <p>Such test results, reports, or other data as the Mississippi Environmental Quality Permit Board may determine to be necessary shall be submitted as specified elsewhere in the permit to the following address:</p> <p>Mississippi Department of Environmental Quality Office of Pollution Control P.O. Box 2261 Jackson, Mississippi 39225. [WPC-1 Chapter One Section IV.A(16)]</p>

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

AI000001421 (continued):

## Narrative Requirements:

Condition No.	Condition
T-27	<p>Duty to Mitigate</p> <p>The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of the permit that has a reasonable likelihood of adversely affecting human health or the environment. [WPC-1 Chapter One Section IV.A.(19)]</p>
T-28	<p>Bypassing</p> <p>The permittee shall comply with the terms and conditions regarding bypass found in 40 CFR 403.17. [WPC-1 Chapter One Section IV.M]</p>
T-29	<p>Bypassing - Definitions</p> <p>"Bypass" means the intentional diversion of waste streams from any portion of the permittee's treatment facility.</p> <p>"Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production. [40 CFR 403.17(a)]</p>
T-30	<p>Bypassing -Notice</p> <p>Anticipated bypass-</p> <p>If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Permit Board, if possible at least ten days before the date of the bypass.</p> <p>Unanticipated bypass-</p> <p>The permittee shall submit oral notice of an unanticipated bypass that exceeds applicable Pretreatment Standards to the Permit Board within 24 hours from the time the permittee becomes aware of the bypass. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the bypass. The written submission shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass. The Permit Board may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. [40 CFR 403.17(c)]</p>

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

AI0000001421 (continued):

## Narrative Requirements:

Condition No.	Condition
T-31	<p>Bypassing- Prohibition of Bypass</p> <p>Bypass is prohibited, and the Commission may take enforcement action against a permittee unless:</p> <ol style="list-style-type: none"><li>(1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage.</li><li>(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and</li><li>(3) The permittee submitted notices as required under the notice of bypass requirement in this permit. [40 CFR 403.17(d)]</li></ol>
T-32	<p>Upsets</p> <p>The permittee shall meet the conditions of 40 CFR 403.16 regarding "Upsets" and as in the upset requirements of this permit. [WPC-1 Chapter One Section IV.M]</p>
T-33	<p>Upsets- Definition</p> <p>"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with categorical pretreatment standards because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation. [WPC-1 Chapter One Section IV.A(27)]</p>
T-34	<p>Upsets - Effect of an upset</p> <p>An upset constitutes an affirmative defense to an action brought for noncompliance with categorical pretreatment standards if the "conditions necessary for demonstration of upset" requirements of this permit are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review. [WPC-1 Chapter One Section IV.A(27)]</p>

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

AI0000001421 (continued):

## Narrative Requirements:

Condition No.	Condition
T-35	<p>Upsets - Conditions necessary for demonstration of upset</p> <p>A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:</p> <ul style="list-style-type: none"><li>(1) An upset occurred and that the permittee can identify the cause(s) of the upset;</li><li>(2) The permitted facility was at the time being properly operated in a prudent and workmanlike manner and in compliance with applicable operation and maintenance procedures; and;</li><li>(3) The permittee submitted notice of the upset as required in 40 CFR 403.16(c)(3)(24-hour notice of noncompliance). [WPC-1 Chapter One Section IV.A(27)]</li></ul>
T-36	<p>Upsets - Burden of proof</p> <p>In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof. [WPC-1 Chapter One Section IV.A(27)]</p>
T-37	<p>Upsets- User responsibility in case of upset</p> <p>The Industrial User shall control production or all discharges to the extent necessary to maintain compliance with categorical Pretreatment Standards upon reduction, loss, or failure of its treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where among other things, the primary source of power of the treatment facility is reduced, lost or fails. [40 CFR 403.16(f)]</p>
T-38	<p>Removed Substances</p> <p>Solids, sludges, filter backwash, or other residuals removed in the course of treatment or control of wastewater shall be disposed of in a manner such as to prevent such materials from entering State waters and in a manner consistent with the Mississippi Solid Waste Disposal Act, the Federal Resource Conservation and Recovery Act, and the Mississippi Water Pollution Control Act. [WPC-1 Chapter One Section IV.A(21)]</p>

**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**AI000001421 (continued):**

**Narrative Requirements:**

Condition No.	Condition
T-39	<p>Power Failures</p> <p>If electric power is required, in order to maintain compliance with the conditions and prohibitions of the permit, the permittee shall either:</p> <ul style="list-style-type: none"><li>(1) Provide an alternative power source to operate the wastewater control facilities; or, if such alternative power source is not in existence, and no date for its implementation appears in the permit,</li><li>(2) Halt, reduce, or otherwise control production and/or all wastewater flows upon reduction, loss, or failure of the primary source of power to the wastewater control facilities. [WPC-1 Chapter One Section IV.A(22)]</li></ul>
T-40	<p>Inspection and Entry</p> <p>The permittee shall allow any authorized Commission representative to enter the permittee's premises where a wastewater source is located or in which records are required to be kept under the terms and conditions of this permit, at any reasonable time, to have access to and copy any applicable records, to inspect process facilities, treatment works, monitoring methods or equipment or to take samples, as authorized by Section 49-17-21 of the Code. In the event of investigation during an emergency response action, a reasonable time shall be any time of the day or night. Follow-up investigations subsequent to the conclusion of the emergency event shall be conducted at reasonable times. [WPC-1 Chapter One Section IV.A(17)]</p>
T-41	<p>Transfer of Ownership or Control</p> <p>This permit is not transferable to any person without proper modification of this permit following procedures found in WPC-1, Chapter 1, Section V.C. [WPC-1 Chapter One Section V.C]</p>
T-42	<p>Signatory Requirements</p> <p>All applications, reports, or information submitted to the Permit Board shall be signed and certified. [WPC-1 Chapter One Section II.C]</p>

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

AI0000001421 (continued):

## Narrative Requirements:

Condition No.	Condition
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T-43 Signatory Requirements - Application Signatures

All permit applications shall be signed as follows:

(1) For a corporation: by a responsible corporate officer. For the purpose of this Section, a responsible corporate officer means: (i) a president, secretary, treasurer or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy - or decision-making function for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding 25 million (in second quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. [WPC-1 Chapter One Section II.C]

T-44 Signatory Requirements -Reports and Other Information

All reports required by the permit and other information requested by the Permit Board shall be signed by a person described by the application signature requirements in this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described by the application signature requirements;

(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and

(3) The written authorization is submitted to the Permit Board. [WPC-1 Chapter One Section II.C]

T-45 Signatory Requirements - Changes to Authorization

If an authorization under the signatory requirements of this permit is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the signatory requirements of this permit must be submitted to the Permit Board prior to or together with any reports, information, or applications. [WPC-1 Chapter One Section IV.M]



# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER200900004

AI000001421 (continued):

## Narrative Requirements:

Condition No.	Condition
T-46	<p>Signatory Requirements - Certification</p> <p>Any person signing a document under the signatory requirements stated in this permit shall make the following certification:</p> <p>"I certify under penalty of law that this document and all attachments were prepared under the 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." [WPC-1 Chapter One Section IV.A(29)d]</p>
T-47	<p>Availability of Records</p> <p>Except for information deemed to be confidential under the Mississippi Code Ann. 49-17-39 and 40 CFR 123.41, file information relating to this permit shall be made available for public inspection and copying during normal business hours at the office of the Department of Environmental Quality in Jackson, Mississippi. Written request must be provided in accordance with policies developed by the Commission and must state, specifically, records proposed for review, date proposed for review and copying requirements. [WPC-1 Chapter One Section III.E]</p>
T-48	<p>Duty to Provide Information</p> <p>The permittee shall furnish to the Permit Board within a reasonable time any relevant information which the Permit Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. The permittee shall also furnish to the Permit Board upon request, copies of records required to be kept by the permit. [WPC-1 Chapter One Section IV.A(16)]</p>
T-49	<p>Permit Actions</p> <p>The permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a modification of planned changes or anticipated noncompliance, does not stay any permit condition. [WPC-1 Chapter One Section V.C(5)]</p>

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

AI0000001421 (continued):

## Narrative Requirements:

Condition No.	Condition
T-50	<p>Civil and Criminal Liability</p> <p>(1) Any person who violates a term, condition or schedule of compliance contained within this permit or the Mississippi Water Pollution Control Law is subject to the actions defined by law.</p> <p>(2) Except as provided in permit conditions on "Bypassing" and "Upsets", nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.</p> <p>(3) It shall not be the defense of the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [WPC-1 Chapter One Section IV.A(24)]</p>
T-51	<p>Oil and Hazardous Substance Liability</p> <p>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 to under Section 311 of the Federal Water Pollution Control Act and applicable provisions under Mississippi Law pertaining to transportation, storage, treatment, or spillage of oil or hazardous substances. [WPC-1 Chapter One Section IV.A(23)]</p>
T-52	<p>Hazardous Waste Release</p> <p>(1) The permittee shall notify the Mississippi Department of Environmental Quality, the EPA Regional Waste Management Division Director, State hazardous waste authorities, and the POTW in writing of any discharge into the POTW of a substance, which, if otherwise disposed of, would be a hazardous waste under 40 CFR part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the Industrial User discharges more than 100 kilograms of such waste per calendar month to the POTW, the notification shall also contain the following information to the extent such information is known and readily available to the Industrial User: An identification of the hazardous constituents contained in the wastes, as estimation of the mass and concentration of such constituents in the wastewater discharged during that calendar month, and an estimation of the mass of constituents in the wastewater expected to be discharged during the following twelve months. All notifications must take place within 180 days of the effective date of this rule. Industrial users who commence discharging after the effective date of this rule shall provide the notification no later than 180 days after the discharge of the listed or characteristic hazardous waste. Any notification under this paragraph need be submitted only once. However, notifications of changed discharges must be submitted under 40 CFR 403.12(j). The notification requirement in this section does not apply to pollutants already reported under the self-monitoring requirements of 40 CFR 403.12(b), (d), and (e). [40 CFR 403.12(p)]</p>

**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**AI000001421 (continued):**

**Narrative Requirements:**

Condition No.	Condition
T-53	<p>Hazardous Waste Release (continued)</p> <p>(2) Dischargers are exempt from the requirements of paragraph (1) of the Hazardous Waste Release requirement during a calendar month in which they discharge no more than fifteen kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(d). Discharge of more than fifteen kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e), requires a one-time notification. Subsequent months during which the Industrial User discharges more than such quantities of any hazardous waste do not require additional notification.</p>
T-54	<p>Hazardous Waste Release (continued)</p> <p>(3) In the case of any new regulations under section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the Industrial User must notify the POTW, the EPA Regional Waste Management Division Director, and State hazardous waste authorities of the discharge of such substance within 90 days of the effective date of such regulations. [40 CFR 403.12(p)]</p>
T-55	<p>Property Rights</p> <p>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 Federal, State, or local laws or regulations. [WPC-1 Chapter One Section V.E]</p>
T-56	<p>Severability</p> <p>The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. [WPC-1 Chapter One Section IV.A(25)]</p>

# Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**AI0000001421 (continued):**

## Narrative Requirements:

Condition No.	Condition
T-57	<p>Protection of Confidential Information</p> <p>(1) Pursuant to Miss. Code Ann. ' 49-17-39 and 40 CFR 123.41, the Permit Board shall make available to the public all information contained on any form and all public comments on such information. Effluent data and information concerning air or water quality shall also be made available to the public. Information that is determined by the Commission to be trade secrets shall not be disclosed to the public without prior consent of the source of such information. When a claim of confidentiality is made by a person in accordance with the provisions of Miss. Code Ann. ' 49-17-39, a recommendation on the questions of confidentiality shall be made by the Commission and forwarded to the Regional Administrator (or his/her designee) of EPA for his concurrence in such determination of confidentiality. [WPC-1 Chapter One Section III.F]</p>
T-58	<p>Protection of Confidential Information- continued</p> <p>(2) A copy of a State, UIC, or NPDES permit application, public notice, fact sheet, draft permit and other forms relating thereto, including written public comment and other reports, files and information relating to the application not classified as confidential information by the Commission pursuant to Part II. B.13.a), shall be available for public inspection and copying during normal business hours at the office of the Department in Jackson, Mississippi. [WPC-1 Chapter One Section III.F]</p>
T-59	<p>Protection of Confidential Information- continued</p> <p>(3) Upon determination by the Commission that information submitted by a permit applicant is entitled to protection against disclosure as trade secrets, the information shall be so labeled and otherwise handled as confidential. Copies of the information and a notice of the Commission's action shall be forwarded to the Regional Administrator (or his/her designee). In making its determination of entitlement to protection as a trade secret, the Commission shall follow the procedure set forth in Miss. Code Ann. ' 49-17-39. In the event the Commission denies the claim of confidentiality, the applicant shall have, upon notification thereof, the right to appeal the Commission's determination in the same manner provided for other orders of the Commission. No disclosure, except to EPA, shall be allowed until any appeal from the determination of the Commission is completed. [WPC-1 Chapter One Section III.F]</p>

**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**AI000001421 (continued):**

**Narrative Requirements:**

Condition No.	Condition
T-60	<p>Spill Prevention and Best Management Plans</p> <p>Any permittee which has above ground bulk storage capacity, of more than 1320 gallons or any single container with a capacity greater than 660 gallons, of materials and/or liquids (including but not limited to, all raw, finished and/or waste material) with chronic or acute potential for pollution impact on waters of the State and not subject to Mississippi Hazardous Waste Management Regulations or 40 CFR 112 (Oil Pollution Prevention) regulations shall provide secondary containment as found in 40 CFR 112 or equivalent protective measures such as trenches or waterways which would conduct any tank releases to a permitted treatment system or sufficient equalization or treatment capacity needed to prevent chronic/acute pollution impact. [WPC-1 Chapter One Section IV.A(12)a]</p>
T-61	<p>Closure Requirements</p> <p>Should the permittee decide to permanently close and abandon the premises upon which it operates, it shall provide a Closure Plan to the Permit Board no later than 90 days prior to doing so. This Closure Plan shall address how and when all manufactured products, by-products, raw materials, stored chemicals, and solid and liquid waste and residues will be removed from the premises or permanently disposed of on site such that no potential environmental hazard to the waters of the State will be presented. Closure plan(s) submitted to and approved by Mississippi Department of Environmental Quality for compliance with other environmental regulations will satisfy the closure requirements for those items specifically addressed in the closure plan(s) as long as the closure does not present a potential for environmental hazard to waters of the State. [WPC-1 Chapter One Section IV.A(11)]</p>

**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**RPNT000000001 (MSP090943-001A) Outfall 001A (Process water discharged to Oxford POTW):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-1	The Permittee shall submit analytical results on a monthly Discharge Monitoring Report (DMR): Due monthly, by the 28th of the subsequent month. [WPC-1 Chapter One]

**Narrative Requirements:**

Condition No.	Condition
T-1	The permittee is authorized to discharge from Outfall 001leachate, equipment washwater, and landfill condensate to Oxford POTW, MS0029017. [WPC-1 Chapter One]



**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements

Permit Number: MSP090943

Activity ID No.: PER20090004

**RPNT000000002 (MSP090943-002) Outfall 002 (Process water discharged to Pontotoc POTW):**

**Submittal/Action Requirements:**

Condition No.	Condition
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S-1 The Permittee shall submit analytical results on a monthly Discharge Monitoring Report (DMR): Due monthly, by the 28th of the subsequent month. [WPC-1 Chapter One]

**Narrative Requirements:**

Condition No.	Condition
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T-1 The permittee is authorized to discharge from outfall 002 leachate, equipment washwater, and landfill condensate to Pontotoc POTW, MS058581. [WPC-1 Chapter One]

**Permit to Operate Waste Disposal System in Accordance with National and State Pretreatment Standards**  
Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill

Facility Requirements  
Permit Number: MSP090943  
Activity ID No.: PER200900004

**RPNT0000000009 (MSP090943-001B) Outfall 001B (Process water discharged to Oxford POTW):**

**Submittal/Action Requirements:**

Condition No.	Condition
S-1	The Permittee shall submit analytical results on an annual Discharge Monitoring Report (DMR): Due annually by the 28th of January. [WPC-1 Chapter One]

A



## GENERAL INFORMATION

Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill  
 1904 Pontotoc Parkway West  
 Pontotoc, MS  
 Pontotoc County

### Alternate/Historic Identifiers

ID	Alternate/Historic Name	User Group	Start Date	End Date
1421	Three Rivers Solid Waste Management Authority	Official Site Name	12/14/1993	
2811500042	Three Rivers SWMA, Three Rivers Reg LF	Air-AIRS AFS	10/12/2000	
230000042	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Air-Construction	4/27/1999	
230000042	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Air-Title V Operating	4/27/1999	4/1/2004
MSP090943	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Water - Pretreatment	4/27/1999	4/26/2004
MSP090943	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Water - Pretreatment	12/14/1993	12/13/1998
SW0580010427	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Solid Waste - MSW Landfill	12/14/1993	12/14/2003
MSS048917	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Water - NPDES	4/27/1999	4/26/2004
MSS048917	Three Rivers Solid Waste Management Authority, the operation of Three Rivers	Water - NPDES	3/8/2005	2/28/2010
MSP090943	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Water - Pretreatment	3/8/2005	2/28/2010
230000042	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Air-Title V Operating	3/8/2005	2/28/2010
230000042	Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill	Air-Title V Fee Customer	4/27/1999	
16231	Three Rivers Regional Solid Waste Management Authority, Pontotoc County Wa	Official Site Name	10/31/1995	10/31/1995
Authorized	Three Rivers Regional Solid Waste Management Authority, Pontotoc County Wa	Solid Waste - Tire Collection	10/31/1995	

**Basin:** Yazoo River Basin

**Section:** 23 **Township:** 9S

**Range:** 2E

**Latitude:** 34° 17' 7" 86 tenths **Longitude:** 89° 3' 32" 52 tenths

**Location Description:** PG - Plant Entrance (General) Data collected by Nancy Moore. Date not given Imported from I-sys



STATE OF MISSISSIPPI  
PHIL BRYANT  
GOVERNOR  
MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY  
GARY C. RIKARD, EXECUTIVE DIRECTOR

January 24, 2018

Mr. Carl Cadden  
Chairman  
Three Rivers Solid Waste Management Authority, Three Rivers Regional Landfill  
PO Box 690  
Pontotoc, MS 38863

Dear Mr. Cadden:

Re: Three Rivers Solid Waste Management  
Authority, Three Rivers Regional Landfill  
502(b)(10) Change  
Ref. No.2300-00042  
Pontotoc County

On January 8, 2018, the referenced facility was issued a 502(b)(10) change or operational flexibility change to your facility's Title V Operating Permit (TVOP) pursuant to Regulation, 11 Miss. Admin. Code Pt. 2, R. 6.4.F. The change included but is not limited the following changes:

- The addition of 25,000 gallon per day Leachate Evaporator- Concentrator with associated 301 standard cubic feet per minute (scfm) enclosed flare. The enclosed flare will combust landfill gas to provide heat energy to the evaporator. In addition, exhaust gas from the four reciprocating internal combustion engines currently permitted at the facility (only one engine is located at the facility at this time) will also be utilized by the evaporator as heat energy.

On January 19, 2018, the facility requested to modify the aforementioned change as follows:

- The addition of a **21,000** gallon per day Leachate Evaporator-Concentrator with an associated **500** standard cubic feet per minute (scfm) enclosed flare. The enclosed flare will combust landfill gas to provide heat energy to the evaporator. In addition, exhaust gas from the four reciprocating internal combustion engines currently permitted at the facility (only one engine is located at the facility at this time) will also be utilized by the evaporator as heat energy.

The updated request will be attached to our file copy of the facility's TVOP, and it is recommended that you attach a copy of the request to your TVOP.

Unless comments are received from EPA Region 4 on your request, no other action will be necessary at this time to include this 502(b)(10) change update in the TVOP. This change update will be formally included when the TVOP is modified or renewed whichever occurs first.

If you have any questions or concerns, please contact me at (601) 961-5171.

Sincerely,

A handwritten signature in cursive script, appearing to read "Sandra Lanier-Taylor".

Sandra Lanier-Taylor  
Environmental Permits Division

cc: Chief of Air Permits Section  
Air Planning Branch  
U.S. EPA Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, GA 30303-3104



Title V  
- Genset

**STATE OF MISSISSIPPI**  
HALEY BARBOUR  
GOVERNOR  
**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**  
TRUDY D. FISHER, EXECUTIVE DIRECTOR

September 19, 2011

CERTIFIED MAIL NO. 7008 1300 0000 6221 3931

Mr. Rick Faucette  
Chairman  
PO Box 690  
Pontotoc, Mississippi 38863

Dear Mr. Rick Faucette:

Re: Three Rivers Regional Landfill  
Pontotoc County  
Air Ref. No. 2300-00042

Enclosed please find the above referenced Title V Operating Permit issued for the operation of air emissions equipment. Operation of the air emissions equipment at the facility shall be in accordance with the terms, conditions, and limitations of the permit. This Title V Operating Permit supersedes and replaces any previously held Operating Permit. Please note that, unless specified otherwise, each condition in this Title V Operating Permit is federally enforceable.

Permit Condition 4.2 requires the annual submittal of a certification of compliance to both the Permit Board and the Administrator of EPA Region IV. The submittal to EPA Region IV should be addressed as follows:

U.S. EPA – Region 4  
Air Compliance Section  
Air, Pesticides and Toxics  
Management Division  
61 Forsyth Street  
Atlanta, GA 30303

Except as provided by Regulation APC-S-6, Section IV.F. Operational Flexibility, modification of this process or facility is not allowed under this permit and it will be necessary to submit a new application for revision of this Title V Operating Permit. Also, it may be necessary to submit an application for a Construction Permit in accordance with the provisions of Regulation APC-S-2. This permit expires on September 30, 2015. A new permit application must be submitted one hundred and eighty (180) days prior to this date in order to renew this permit.

Any appeal of this permit action must be made within the 30-day period provided for in Miss. Code Ann. Section 49-17-29(4)(b) (Rev. 2003).

If you have any questions or if we can be of service, please let me know.

Sincerely,

Lynn Chambers  
Environmental Permits Division

Enclosure

**STATE OF MISSISSIPPI  
AIR POLLUTION CONTROL  
TITLE V PERMIT**

**TO OPERATE AIR EMISSIONS EQUIPMENT**

**THIS CERTIFIES THAT**

Three Rivers Solid Waste Management Authority  
Three Rivers Regional Landfill  
1904 Pontotoc Parkway West  
Pontotoc, MS  
Pontotoc County

has been granted permission to operate air emissions equipment in accordance with emission limitations, monitoring requirements and conditions set forth herein. This permit is issued in accordance with Title V of the Federal Clean Air Act (42 U.S.C.A. § 7401 - 7671) and the provisions of the Mississippi Air and Water Pollution Control Law (Section 49-17-1 et. seq., Mississippi Code of 1972), and the regulations and standards adopted and promulgated thereunder.

**Permit Issued: October 12, 2010**

**Permit Modified: September 13, 2011**

**Effective Date: As specified herein.**

**MISSISSIPPI ENVIRONMENTAL QUALITY PERMIT BOARD**



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**AUTHORIZED SIGNATURE**

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Expires: September 30, 2015**

**Permit No.: 2300-00042**

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**APPENDIX A LIST OF ABBREVIATIONS USED IN THIS PERMIT**

**APPENDIX B 40 CFR 60, SUBPART WWW - STANDARDS OF PERFORMANCE FOR MUNICIPAL SOLID WASTE LANDFILLS**

**APPENDIX C 40 CFR 61, SUBPART M - NATIONAL EMISSION STANDARD FOR ASBESTOS**

**APPENDIX D 40 CFR PART 63, SUBPART AAAA, NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: MUNICIPAL SOLID WASTE LANDFILLS**

**APPENDIX E 40 CFR PART 60, SUBPART A – GENERAL PROVISIONS**

**APPENDIX F 40 CFR PART 63, SUBPART A, NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: GENERAL PROVISIONS**

## SECTION 1. GENERAL CONDITIONS

- 1.1 The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Federal Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. (Ref.: APC-S-6, Section III.A.6.a.)
- 1.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (Ref.: APC-S-6, Section III.A.6.b.)
- 1.3 This permit and/or any part thereof may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. (Ref.: APC-S-6, Section III.A.6.c.)
- 1.4 This permit does not convey any property rights of any sort, or any exclusive privilege. (Ref.: APC-S-6, Section III.A.6.d.)
- 1.5 The permittee shall furnish to the DEQ within a reasonable time any information the DEQ may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the DEQ copies of records required to be kept by the permittee or, for information to be confidential, the permittee shall furnish such records to DEQ along with a claim of confidentiality. The permittee may furnish such records directly to the Administrator along with a claim of confidentiality. (Ref.: APC-S-6, Section III.A.6.e.)
- 1.6 The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstances, is challenged or held invalid, the validity of the remaining permit provisions and/or portions thereof or their application to other persons or sets of circumstances, shall not be affected thereby. (Ref.: APC-S-6, Section III.A.5.)
- 1.7 The permittee shall pay to the DEQ an annual permit fee. The amount of fee shall be determined each year based on the provisions of regulated pollutants for fee purposes and the fee schedule specified in the Commission on Environmental Quality's order which shall be issued in accordance with the procedure outlined in Regulation APC-S-6.
  - (a) For purposes of fee assessment and collection, the permittee shall elect for actual or allowable emissions to be used in determining the annual quantity of emissions unless the Commission determines by order that the method chosen by the applicant

for calculating actual emissions fails to reasonably represent actual emissions. Actual emissions shall be calculated using emission monitoring data or direct emissions measurements for the pollutant(s); mass balance calculations such as the amounts of the pollutant(s) entering and leaving process equipment and where mass balance calculations can be supported by direct measurement of process parameters, such direct measurement data shall be supplied; published emission factors such as those relating release quantities to throughput or equipment type (e.g., air emission factors); or other approaches such as engineering calculations (e.g., estimating volatilization using published mathematical formulas) or best engineering judgments where such judgments are derived from process and/or emission data which supports the estimates of maximum actual emission. (Ref.: APC-S-6, Section VI.A.2.)

- (b) If the Commission determines that there is not sufficient information available on a facility's emissions, the determination of the fee shall be based upon the permitted allowable emissions until such time as an adequate determination of actual emissions is made. Such determination may be made anytime within one year of the submittal of actual emissions data by the permittee. (Ref.: APC-S-6, Section VI.A.2.) If at any time within the year the Commission determines that the information submitted by the permittee on actual emissions is insufficient or incorrect, the permittee will be notified of the deficiencies and the adjusted fee schedule. Past due fees from the adjusted fee schedule will be paid on the next scheduled quarterly payment time. (Ref.: APC-S-6, Section VI.D.2.)
  - (c) The fee shall be due September 1 of each year. By July 1 of each year the permittee shall submit an inventory of emissions for the previous year on which the fee is to be assessed. The permittee may elect a quarterly payment method of four (4) equal payments; notification of the election of quarterly payments must be made to the DEQ by the first payment date of September 1. The permittee shall be liable for penalty as prescribed by State Law for failure to pay the fee or quarterly portion thereof by the date due. (Ref.: APC-S-6, Section VI.D.)
  - (d) If in disagreement with the calculation or applicability of the Title V permit fee, the permittee may petition the Commission in writing for a hearing in accordance with State Law. Any disputed portion of the fee for which a hearing has been requested will not incur any penalty or interest from and after the receipt by the Commission of the hearing petition. (Ref.: APC-S-6, Section VI.C.)
- 1.8 No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (Ref.: APC-S-6, Section III.A.8.)
- 1.9 Any document required by this permit to be submitted to the DEQ shall contain a certification by a responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true,



accurate, and complete. (Ref.: APC-S-6, Section II.E.)

- 1.10 The permittee shall allow the DEQ, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to perform the following:
- (a) enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
  - (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - (c) inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
  - (d) as authorized by the Federal Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. (Ref.: APC-S-6, Section III.C.2.)
- 1.11 Except as otherwise specified or limited herein, the permittee shall have necessary sampling ports and ease of accessibility for any new air pollution control equipment, obtained after May 8, 1970, and vented to the atmosphere. (Ref.: APC-S-1, Section 3.9(a))
- 1.12 Except as otherwise specified or limited herein, the permittee shall provide the necessary sampling ports and ease of accessibility when deemed necessary by the Permit Board for air pollution control equipment that was in existence prior to May 8, 1970. (Ref.: APC-S-1, Section 3.9(b))
- 1.13 Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance where such applicable requirements are included and are specifically identified in the permit or where the permit contains a determination, or summary thereof, by the Permit Board that requirements specifically identified previously are not applicable to the source. (Ref.: APC-S-6, Section III.F.1.)
- 1.14 Nothing in this permit shall alter or affect the following:
- (a) the provisions of Section 303 of the Federal Act (emergency orders), including the authority of the Administrator under that section;
  - (b) the liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
  - (c) the applicable requirements of the acid rain program, consistent with Section 408(a)

of the Federal Act.

- (d) the ability of EPA to obtain information from a source pursuant to Section 114 of the Federal Act. (Ref.: APC-S-6, Section III.F.2.)
- 1.15 The permittee shall comply with the requirement to register a Risk Management Plan if permittee's facility is required pursuant to Section 112(r) of the Act to register such a plan. (Ref.: APC-S-6, Section III.H.)
- 1.16 Expiration of this permit terminates the permittee's right to operate unless a timely and complete renewal application has been submitted. A timely application is one which is submitted at least six (6) months prior to expiration of the Title V permit. If the permittee submits a timely and complete application, the failure to have a Title V permit is not a violation of regulations until the Permit Board takes final action on the permit application. This protection shall cease to apply if, subsequent to the completeness determination, the permittee fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application. (Ref.: APC-S-6, Section IV.C.2., Section IV.B., and Section II.A.1.c.)
- 1.17 The permittee is authorized to make changes within their facility without requiring a permit revision (ref: Section 502(b)(10) of the Act) if:
- (a) the changes are not modifications under any provision of Title I of the Act;
  - (b) the changes do not exceed the emissions allowable under this permit;
  - (c) the permittee provides the Administrator and the Department with written notification in advance of the proposed changes (at least seven (7) days, or such other time frame as provided in other regulations for emergencies) and the notification includes:
    - (1) a brief description of the change(s),
    - (2) the date on which the change will occur,
    - (3) any change in emissions, and
    - (4) any permit term or condition that is no longer applicable as a result of the change;
  - (d) the permit shield shall not apply to any Section 502(b)(10) change. (Ref.: APC-S-6, Section IV.F.)
- 1.18 Should the Executive Director of the Mississippi Department of Environmental Quality

declare an Air Pollution Emergency Episode, the permittee will be required to operate in accordance with the permittee's previously approved Emissions Reduction Schedule or, in the absence of an approved schedule, with the appropriate requirements specified in Regulation APC-S-3, "Regulations for the Prevention of Air Pollution Emergency Episodes" for the level of emergency declared. (Ref.: APC-S-3)

- 1.19 Except as otherwise provided herein, a modification of the facility may require a Permit to Construct in accordance with the provisions of Regulations APC-S-2, "Permit Regulations for the Construction and/or Operation of Air Emissions Equipment", and may require modification of this permit in accordance with Regulations APC-S-6, "Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act". Modification is defined as "[a]ny physical change in or change in the method of operation of a facility which increases the actual emissions or the potential uncontrolled emissions of any air pollutant subject to regulation under the Federal Act emitted into the atmosphere by that facility or which results in the emission of any air pollutant subject to regulation under the Federal Act into the atmosphere not previously emitted. A physical change or change in the method of operation shall not include:
- (a) routine maintenance, repair, and replacement;
  - (b) use of an alternative fuel or raw material by reason of an order under Sections 2 (a) and (b) of the Federal Energy Supply and Environmental Coordination Act of 1974 (or any superseding legislation) or by reason of a natural gas curtailment plan pursuant to the Federal Power Act;
  - (c) use of an alternative fuel by reason of an order or rule under Section 125 of the Federal Act;
  - (d) use of an alternative fuel or raw material by a stationary source which:
    - (1) the source was capable of accommodating before January 6, 1975, unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166; or
    - (2) the source is approved to use under any permit issued under 40 CFR 52.21 or under regulations approved pursuant to 40 CFR 51.166;
  - (e) an increase in the hours of operation or in the production rate unless such change would be prohibited under any federally enforceable permit condition which was established after January 6, 1975, pursuant to 40 CFR 52.21 or under regulations approved pursuant to 40 CFR Subpart I or 40 CFR 51.166; or
  - (f) any change in ownership of the stationary source."

- 1.20 Any change in ownership or operational control must be approved by the Permit Board. (Ref.: APC-S-6, Section IV.D.4.)
- 1.21 This permit is a Federally approved operating permit under Title V of the Federal Clean Air Act as amended in 1990. All terms and conditions, including any designed to limit the source's potential to emit, are enforceable by the Administrator and citizens under the Federal Act as well as the Commission. (Ref.: APC-S-6, Section III.B.1)
- 1.22 Except as otherwise specified or limited herein, the open burning of residential, commercial, institutional, or industrial solid waste, is prohibited. This prohibition does not apply to infrequent burning of agricultural wastes in the field, silvicultural wastes for forest management purposes, land-clearing debris, debris from emergency clean-up operations, and ordnance. Open burning of land-clearing debris must not use starter or auxiliary fuels which cause excessive smoke (rubber tires, plastics, etc.); must not be performed if prohibited by local ordinances; must not cause a traffic hazard; must not take place where there is a High Fire Danger Alert declared by the Mississippi Forestry Commission or Emergency Air Pollution Episode Alert imposed by the Executive Director and must meet the following buffer zones.
- (a) Open burning without a forced-draft air system must not occur within 500 yards of an occupied dwelling.
  - (b) Open burning utilizing a forced-draft air system on all fires to improve the combustion rate and reduce smoke may be done within 500 yards of but not within 50 yards of an occupied dwelling.
  - (c) Burning must not occur within 500 yards of commercial airport property, private air fields, or marked off-runway aircraft approach corridors unless written approval to conduct burning is secured from the proper airport authority, owner or operator. (Ref.: APC-S-1, Section 3.7)
- 1.23 Except as otherwise specified herein, the permittee shall be subject to the following provision with respect to emergencies.
- (a) Except as otherwise specified herein, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.
  - (b) An emergency constitutes an affirmative defense to an action brought for

noncompliance with such technology-based emission limitations if the conditions specified in (c) following are met.

- (c) The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
  - (1) an emergency occurred and that the permittee can identify the cause(s) of the emergency;
  - (2) the permitted facility was at the time being properly operated;
  - (3) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
  - (4) the permittee submitted notice of the emergency to the DEQ within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (e) This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein. (Ref.: APC-S-6, Section III.G.)

1.24 Except as otherwise specified herein, the permittee shall be subject to the following provisions with respect to upsets, startups, shutdowns and maintenance.

- (a) Upsets (as defined by APC-S-1, Section 2.37)
  - (1) The occurrence of an upset constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards or other requirements of Applicable Rules and Regulations or any applicable permit if the permittee demonstrates through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
    - (i) an upset occurred and that the permittee can identify the cause(s) of the upset;
    - (ii) the source was at the time being properly operated;

- (iii) during the upset the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;
  - (iv) the permittee submitted notice of the upset to the DEQ within 5 working days of the time the upset began; and
  - (v) the notice of the upset shall contain a description of the upset, any steps taken to mitigate emissions, and corrective actions taken.
- (2) In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
- (3) This provision is in addition to any upset provision contained in any applicable requirement.
- (b) Startups and Shutdowns (as defined by APC-S-1, Sections 2.34 & 2.29)
- (1) Startups and shutdowns are part of normal source operation. Emissions limitations applicable to normal operation apply during startups and shutdowns except as follows:
- (i) when sudden, unavoidable breakdowns occur during a startup or shutdown, the event may be classified as an upset subject to the requirements above;
  - (ii) when a startup or shutdown is infrequent, the duration of excess emissions is brief in each event, and the design of the source is such that the period of excess emissions cannot be avoided without causing damage to equipment or persons; or
  - (iii) when the emissions standards applicable during a startup or shutdown are defined by other requirements of Applicable Rules and Regulations or any applicable permit.
- (2) In any enforcement proceeding, the permittee seeking to establish the applicability of any exception during a startup or shutdown has the burden of proof.
- (3) In the event this startup and shutdown provision conflicts with another applicable requirement, the more stringent requirement shall apply.
- (c) Maintenance.

- (1) Maintenance should be performed during planned shutdown or repair of process equipment such that excess emissions are avoided. Unavoidable maintenance that results in brief periods of excess emissions and that is necessary to prevent or minimize emergency conditions or equipment malfunctions constitutes an affirmative defense to an enforcement action brought for noncompliance with emission standards, or other regulatory requirements if the permittee can demonstrate the following:
  - (i) the permittee can identify the need for the maintenance;
  - (ii) the source was at the time being properly operated;
  - (iii) during the maintenance the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements of Applicable Rules and Regulations or any applicable permit;
  - (iv) the permittee submitted notice of the maintenance to the DEQ within 5 working days of the time the maintenance began or such other times as allowed by DEQ; and
  - (v) the notice shall contain a description of the maintenance, any steps taken to mitigate emissions, and corrective actions taken.
- (2) In any enforcement proceeding, the permittee seeking to establish the applicability of this section has the burden of proof.
- (3) In the event this maintenance provision conflicts with another applicable requirement, the more stringent requirement shall apply. (Ref.: APC-S-1, Section 10)

1.25 The permittee shall comply with all applicable standards for demolition and renovation activities pursuant to the requirements of 40 CFR Part 61, Subpart M, as adopted by reference in Regulation APC-S-1, Section 8. The permittee shall not be required to obtain a modification of this permit in order to perform the referenced activities.

SECTION 2. EMISSION POINTS & POLLUTION CONTROL DEVICES

Emission Point	Description
AA-001	Municipal Solid Waste Landfill with a design capacity of 32,973,000 cubic yards with a gas collection and control system and associated electric generating internal combustion engines (AA-002)
AA-002	Four (4) Landfill gas reciprocating internal combustion engines
AA-003	2 Candlestick Flares
AA-004	Onsite landfill fugitive emissions from Unpaved and Paved roads



### SECTION 3. EMISSION LIMITATIONS & STANDARDS

#### A. Facility-Wide Emission Limitations & Standards

- 3.A.1 Except as otherwise specified or limited herein, the permittee shall not cause, permit, or allow the emission of smoke from a point source into the open air from any manufacturing, industrial, commercial or waste disposal process which exceeds forty (40) percent opacity subject to the exceptions provided in (a) & (b).
- (a) Startup operations may produce emissions which exceed 40% opacity for up to fifteen (15) minutes per startup in any one hour and not to exceed three (3) startups per stack in any twenty-four (24) hour period.
  - (b) Emissions resulting from soot blowing operations shall be permitted provided such emissions do not exceed 60 percent opacity, and provided further that the aggregate duration of such emissions during any twenty-four (24) hour period does not exceed ten (10) minutes per billion BTU gross heating value of fuel in any one hour. (Ref.: APC-S-1, Section 3.1)
- 3.A.2 Except as otherwise specified or limited herein, the permittee shall not cause, allow, or permit the discharge into the ambient air from any point source or emissions, any air contaminant of such opacity as to obscure an observer's view to a degree in excess of 40% opacity, equivalent to that provided in Paragraph 3.A.1. This shall not apply to vision obscuration caused by uncombined water droplets. (Ref.: APC-S-1, Section 3.2)

#### B. Emission Point Specific Emission Limitations & Standards

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/ Parameter	Limit/Standard
For all operating conditions				
AA-001	40 CFR 60.757(b)(1)(ii)	3.B.3	NMOC	Calculate NMOC annually unless NMOC < 50 Mg/yr per year in each of the next 5 consecutive years
AA-001, AA-002, and AA-003	APC-S-1, Section 4.2(b)	3.B.10	H <sub>2</sub> S	1 grain/100 standard cubic feet
AA-001 and AA-003	APC-S-1, Section 4.2(a)	3.B.14	SO <sub>2</sub>	500 ppm by volume

Emission Point(s)	Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
AA-003	APC-S-6, Section III.A.3(a)(2)	3.B.15	Operating Restriction	Flare shall be operated with a flame present at all times when landfill gas is routed to the flare.
AA-003	APC-S-6, Section III.A.3(a)(2)	3.B.16	Operating Restriction	Flare shall be operated with no visible emissions, except for a period of 5 minutes during any 2 consecutive hours.
AA-002	40CFR 60.4233(e)	3.B.20	NOx	2.0 g/HP-hr and 150 ppmv @ 15% O <sub>2</sub>
AA-002	40CFR 60.4233(e)	3.B.20	CO	5.0 g/HR-hr and 610 ppmv @ 15% O <sub>2</sub>
AA-002	40CFR 60.4233(e)	3.B.20	VOC	1.0 g/HP-hr and 80 ppmv @ 15% O <sub>2</sub>
AA-002	40 CFR 60.4233(e)	3.B.29	Operating Restriction	Fuel usage restricted to landfill gas or digester gas
For operating conditions when calculated NMOC emission rates, site-specific NMOC emission rates, or site-specific NMOC emission rates using site-specific methane generation rates are greater than 50 Mg/yr.				
AA-001	40 CFR 60.752(b)(2)(iii)	3.B.7	Operating Restriction	Route all collected gas to the gas collection and control system (GCCS)
AA-001	40 CFR 60.752(b)(2)(ii)	3.B.23	Operating Restriction	For an active landfill, operate the GCCS to collect gas from each area in which solid waste has been in place for 5 years or more
AA-001	40 CFR 60.752(b)(2)(ii)	3.B.23	Operating Restriction	For a closed landfill or a landfill at final grade, operate the GCCS to collect gas from each area in which solid waste has been placed for 2 years or more.
AA-001	40 CFR 60.753(b)	3.B.24	Operating Restriction	Operate GCCS with negative pressure at each wellhead except under conditions of fire or increased well temperature, use of a geomembrane or synthetic cover, or a decommissioned well
AA-001	40 CFR 60.753(c)	3.B.25	Temperature	Landfill gas temperature < 55°C for each interior wellhead with N <20% or O <sub>2</sub> <5%, unless otherwise demonstrated
AA-001	40 CFR 60.753(d)	3.B.26	Methane	< 500 ppm above background at surface of the landfill
AA-001	40 CFR 60.753(e)	3.B.27	Operating Restriction	In the event that the GCCS is inoperable, the GCCS shall be shut down and all valves in the GCCS contributing to venting of gas shall be closed within one (1) hour of GCCS becoming inoperable.

3.B.1 For Emission Point AA-001, the permittee installed a gas collection and control system prior to a design and installation date established by the New Source Performance Standards (NSPS) Subpart WWW. (Ref. Federally Enforceable Requirements established in the Title V Permit issued October 12, 2010)

- 3.B.2 For Emission Point AA-001, the permittee shall either submit a revised gas collection and control plan and install modifications to the gas collection and control system or calculate a NMOC emission rate for the landfill using the procedures specified in §60.754(b) for areas of the landfill affected by a new or existing gas collection and control system and §60.754(a) for all other landfill areas. (Ref. 40 CFR 60.754)
- 3.B.3 For Emission Point AA-001, the NMOC emission rate shall be recalculated annually except if the estimated NMOC emission rate is less than 50 megagrams per year in each of the next 5 consecutive years. Then the permittee may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. (Ref. 40 CFR §60.757(b)(1)(ii)).
- 3.B.4 For Emission Point AA-001, if the calculated NMOC emission rate is less than 50 megagrams per year, the permittee shall:
- (a) Submit an annual emission report to the DEQ, except as provided for in Condition 3.B.3; and
  - (b) Recalculate the NMOC emission rate annually using the procedures specified in §60.754(a)(1) for landfill areas not affected by a new or existing gas collection and control system and §60.754(b) for affected landfill until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, or the landfill is closed.  
(Ref. 40 CFR 60.752(b)(1))
- 3.B.5 For Emission Point AA-001, if the NMOC emission rate, upon recalculation required in Condition 3.B.4(b) is equal to or greater than 50 megagrams per year, the permittee shall:
- (a) Submit a demonstration that a new or an existing collection and control system design plan was prepared by a professional engineer unless the conditions in 5.C.2 are satisfied, indicating the NMOC emission rate is less than 50 megagrams per year. The demonstration shall include:
    - (1) A description of a collection and control system that meet the design requirements of §60.752(b)(2)(ii).
    - (2) Any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of §§60.753 through 60.758 proposed by the permittee.
    - (3) The collection and control system design demonstration shall either conform with specifications for active collection systems in §60.759 or include a demonstration to the Department's satisfaction of the sufficiency of the alternative provisions to §60.759.

- (4) The demonstration shall indicate that the active collection system:
  - (i) Was designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment;
  - (ii) Collects gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more, if active; or, 2 years or more if closed or at final grade;
  - (iii) Collects gas at a sufficient extraction rate;
  - (iv) Was designed to minimize off-site migration of subsurface gas.
- (b) The Department shall review the information submitted under §60.752(b)(2)(i)(A), (B) and (C) and either approve it, disapprove it, or request that additional information be submitted.  
(Ref. 40 CFR 60.752(b)(2))
- 3.B.6 If any existing collection system does not comply with the design requirements of 40 CFR 60.752(b)(2), the permittee shall make all necessary modifications to the collection system to comply with 40 CFR 60.752(b)(2)(ii)(A) or (B) within 30 months of demonstration disapproval. (Ref.: 40 CFR 60.752(b)(2)(ii)(A)(2))
- 3.B.7 When required by 40 CFR 60, Subpart WWW, the permittee shall route all collected gas to the control system. The collection system must comply with either paragraph (a), (b), or (c) of this section.
  - (a) An open flare designed and operated in compliance with §60.18;
  - (b) A control system designed and operated to reduce NMOC by 98 weight-percent, or, when an enclosed combustion device is used for control, to either reduce NMOC by 98 weight percent or reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3 percent oxygen. The reduction efficiency or parts per million by volume shall be established by an initial performance test, required under §60.8 using the test methods specified in §60.754(d).
    - (1) If a boiler or process heater is used as the control device, the landfill gas stream shall be introduced into the flame zone.
    - (2) The control device shall be operated within the parameter ranges established during the initial or most recent performance test. The operating parameters to be monitored are specified in §60.756;

- (c) Route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of paragraphs (1) or (2) of this section.  
(Ref.: 40 CFR 60.752(b)(2)(iii))
- 3.B.8 For Emission Point AA-001, the permittee, upon being required to install a collection system in accordance with NSPS Subpart WWW, shall operate the collection and control device installed to comply with Subpart WWW in accordance with §60.753, §60.755 and §60.756.  
(Ref.: 40 CFR 60.752(b)(2)(ii)(A))
- 3.B.9 For Emission Point AA-001, the permittee may cap or remove the collection and control system provided that all the conditions of paragraphs (a), (b), and (c) of this section are met:
  - (a) The landfill shall be no longer accepting solid waste and be permanently closed under the requirements of 40 CFR 258.60. A closure report shall be submitted to the Administrator as provided in §60.757(d);
  - (b) The collection and control system shall have been in operation a minimum of 15 years; and
  - (c) Following the procedures specified in §60.754(b) of Subpart WWW, the calculated NMOC gas produced by the landfill shall be less than 50 megagrams per year on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.  
(Ref.: 40 CFR 60.752(b))
- 3.B.10 For Emission Points AA-001, AA-002, and AA-003, the permittee shall not cause or permit the emission of any gas stream which contains hydrogen sulfide in excess of one grain per 100 standard cubic feet. Gas streams containing hydrogen sulfide in excess of one grain per 100 standard cubic feet shall be incinerated at temperatures of not less than 1600°F for a period of not less than 0.5 seconds, or processed in such manner which is equivalent to or more effective for the removal of hydrogen sulfide. (Ref.: APC-S-1, Section 4.2(b))
- 3.B.11 For Emission Point AA-001, the permittee shall comply with §61.154 for asbestos-containing waste material received from a source covered under §§61.149, 61.150, or 61.155. The full text of the referenced regulations is contained in Appendix C to this permit.  
(Ref.: 40 CFR 61.154)
- 3.B.12 Emission Point AA-001 is affected by and shall comply with the National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills when uncontrolled emissions exceed 50 MG/yr as determined by Condition 3.B.3 and the facility is required to install a gas collection and control system. (Ref. 40 CFR Part 63, Subpart AAAA).

- 3.B.13 For Emission Point AA-001, when the landfill is closed and either never-needed control or meets the conditions for control system removal specified in §60.752(b)(v), a Title V operating permit shall no longer be required. (Ref. 40 CFR 60.752(d))
- 3.B.14 For Emission Points AA-001 and AA-003, the permittee shall not cause or permit the emission of gas containing sulfur oxides (measured as sulfur dioxide) in excess of 500 ppm (volume). (Ref.: APC-S-1, Section 4.2(a))
- 3.B.15 Emission Point AA-003 used to comply with the provisions of 40 CFR 60.18, Subpart A shall be operated at all times with a flame present when landfill gas is routed to it. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. (Ref.: APC-S-6, Section II.A.3(a)(2))
- 3.B.16 Emission Point AA-003 shall be operated with no visible emissions as determined by Method 22 of 40 CFR Subpart A, Appendix A, except for a period not to exceed a total of 5 minutes during any two consecutive hours. (Ref.: Federally Enforceable Requirement established in the Title V Permit issued October 12, 2010, 40 CFR 60.18, and APC-S-6, Section III.A.3(a)(2))
- 3.B.17 Emission Point AA-003 shall be steam-assisted, air-assisted or non-assisted. Air-assisted flares shall be designed and operated with an exit velocity less than the velocity,  $V_{max}$ , as specified in Condition 5.B.6.
- (Ref.: APC-S-6, Section III.A.3(a)(2) and 40 CFR 60.18(c))
- 3.B.18 For Emission Point AA-003 operation, the permittee shall either adhere to the heat content specifications and the maximum tip velocity specifications in §60.18(c)(3)(ii) and §60.18(c)(4), or adhere to the flare requirements in §60.18(c)(3)(i). The full text of the referenced regulations is contained in Appendix E to this permit. (Ref.: 40 CFR 60.18(c))
- 3.B.19 For Emission Point AA-003 operating as an open flare, the permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications the following equipment:
- (a) A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.
  - (b) When a bypass is present on the flare, a device that records flow to or bypass of the flare. The permittee shall either:
    - (1) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or
    - (2) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall be performed at least once every month to ensure that the

valve is maintained in the closed position and that the gas flow is not diverted through the bypass line.

(Ref. APC-S-6, Section III.A.3(a)(2) and 40 CFR 60.756(c))

- 3.B.20 For Emission Point AA-002, the permittee shall comply with the emission standards in Table 1 of 40 CFR 60 Subpart JJJJ. For Landfill/Digester Lean Burn engines with a maximum engine power greater than 500 HP the following standards apply based on engine manufacturer date:

Manufacturer Date	Emission Standards					
	g/HP-hr			ppmvd @15% O <sub>2</sub>		
	NO <sub>x</sub>	CO	VOC <sup>d</sup>	NO <sub>x</sub>	CO	VOC <sup>d</sup>
July 1, 2007	3.0	5.0	1.0	220	610	80
July 1, 2010	2.0	5.0	1.0	150	610	80

(Ref.: 40 CFR 60.4233(e))

- 3.B.21 For Emission Point AA-002, the permittee shall operate and maintain the engines to achieve the emissions listed in Condition 3.B.20 over the entire life of the engine(s). (Ref.: 40 CFR 60.4234)
- 3.B.22 For Emission Point AA-002, the permittee shall not install stationary spark ignition internal combustion engines (SI ICE) that do not meet the requirements listed in Condition 3.B.20 and 40 CFR 60 Subpart JJJJ Table 1. (Ref.: 40 CFR 60.4236(a) and (b))
- 3.B.23 When required by 40 CFR 60, Subpart WWW and in compliance with the provisions of Section 60.752(b)(2)(ii), the permittee of the MSW landfill shall operate the gas collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for 5 years or more if the landfill is active, or 2 years or more if the landfill is closed or at final grade. (Ref.: 40 CFR 60.753(a))
- 3.B.24 When required by 40 CFR 60, Subpart WWW, the permittee shall operate the gas collection system with negative pressure at each wellhead except under the following conditions:
- (a) A fire or increased well temperature. The permittee shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in Sec. 60.757(f)(1);
  - (b) Use of a geomembrane or synthetic cover. The owner or operator shall develop acceptable pressure limits in the design plan;
  - (c) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Department.

(Ref.: 40 CFR 60.753(b))

3.B.25 When required by 40 CFR 60, Subpart WWW, the permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 °C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The permittee may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.

- (a) The nitrogen level shall be determined using Method 3C or any alternative test method allowed by 40 CFR 60.752(b)(2)(i).
- (b) The oxygen shall be determined by an oxygen meter using any alternative test method allowed by 40 CFR 60.752(b)(2)(i) or Method 3A except that:
  - (1) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span;
  - (2) A data recorder is not required;
  - (3) Only two (2) calibration gases are required, a zero and span, and ambient air may be used as the span;
  - (4) A calibration error check is not required;
  - (5) The allowable sample bias, zero drift, and calibration drift are  $\pm 10$  percent.

(Ref.: 40 CFR 60.753(c))

3.B.26 When required by 40 CFR 60, Subpart WWW, the permittee shall operate the gas collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. The permittee may establish an alternative traversing pattern that ensures equivalent coverage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing. (Ref.: 40 CFR 60.753(d))

3.B.27 When required by 40 CFR 60, Subpart WWW, the permittee shall operate the system such that all collected gases are vented to a control system designed and operated in compliance with Sec. 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within one (1) hour of the collection system becoming inoperable. (Ref.: 40 CFR 60.753(e))



- 3.B.28 When required by 40 CFR 60, Subpart WWW, the permittee shall implement corrective actions as specified in Sec. 60.755(a)(3) through (5) or 40 CFR 60.755(c) in the event the required monitoring demonstrates that the operational requirements in Conditions 3.B.24, 3.B.25, and 3.B.26 are not met. If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements in this section. (Ref.: APC-S-6, Section III.A.3(a)(2) and 40 CFR 60.753)
- 3.B.29 For Emission Point AA-002, the permittee shall restrict fuel usage to landfill gas or digester gas. (Ref.: 40 CFR 60.4233(e))

C. Insignificant and Trivial Activity Emission Limitations & Standards

Applicable Requirement	Condition Number(s)	Pollutant/Parameter	Limit/Standard
APC-S-1, Section 3.4(a)(1)	3.C.1	PM	0.6 lbs/MMBTU
APC-S-1, Section 4.1(a)	3.C.2	SO <sub>2</sub>	4.8 lbs/MMBTU

- 3.C.1 The maximum permissible emission of ash and/or particulate matter from fossil fuel burning installations of less than 10 million BTU per hour heat input shall not exceed 0.6 pounds per million BTU per hour heat input. (Ref. APC-S-1, Section 3.4(a)(1))
- 3.C.2 The maximum discharge of sulfur oxides from any fuel burning installation in which the fuel is burned primarily to produce heat or power by indirect heat transfer shall not exceed 4.8 pounds (measured as sulfur dioxide) per million BTU heat input. (Ref. APC-S-1, Section 4.1(a))
- 3.C.3 The permittee shall comply with the New Source Performance Standards, as described in 40 CFR 60, Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels and specific requirements outlined in 40 CFR 60.11b.

D. Specifications for Active Collection System

- 3.D.1 When required by 40 CFR 60, Subpart WWW, the permittee shall site active collection wells, horizontal collectors, surface collectors, or other extraction devices at a sufficient density throughout all gas producing areas using the following procedures unless alternate procedures are approved by the Department:
- (a) A collection device designs prepared by a professional engineer registered in the State of Mississippi for the interior and along the perimeter areas shall be certified to achieve comprehensive control of surface gas emissions. The collection design shall

address: depths of refuse, refuse gas generation rates and flow characteristics, cover properties, gas system expandability, leachate and condensate management accessibility, compatibility with filling operations, integration with close end use, air intrusion control, corrosion resistance, fill settlement, and resistance to the refuse decomposition heat.

- (b) The sufficient density of gas collection devices determined in Condition 3.D.1(a) of this permit shall address landfill gas migration issues and modification of the collection system through the use of active or passive systems at the landfill perimeter or exterior.
- (c) The placement of gas collection devices determined in Condition 3.D.1(a) of this permit shall control all gas producing areas, except as follows:
  - (1) Any segregated area of asbestos or non-degradable material may be excluded from collection if those areas are documented in accordance with 40 CFR 60.758(d).
  - (2) Any nonproductive area of the landfill may be excluded from control.

(Ref. APC-S-6, Section III.A.3(a) and 40 CFR 60.759(a))

3.D.2 When required by 40 CFR 60, Subpart WWW, the permittee shall construct the gas collection devices using the following equipment or procedures:

- (a) The landfill gas extraction components shall be constructed of polyvinyl chloride (PVC), high density polyethylene (HDPE) pipe, fiberglass, stainless steel, or other nonporous corrosion resistant material of suitable dimensions to: convey projected amounts of gases; withstand installation, static, and settlement forces; and withstand planned overburden or traffic loads. The collection system shall extend as necessary to comply with emission and migration standards. Collection devices such as wells and horizontal collectors shall be perforated to allow gas entry without head loss sufficient to impair performance across the intended extent of control. Perforations shall be situated with regard to the need to prevent excessive air infiltration.
- (b) Vertical wells shall be placed so as not to endanger underlying liners and shall address the occurrence of water within the landfill. Holes and trenches constructed for piped wells and horizontal collectors shall be of sufficient cross-section so as to allow for their proper construction and completion including, for example, centering of pipes and placement of gravel backfill. Collection devices shall be designed so as not to allow indirect short circuiting of air into the cover or refuse into the collection system or gas into the air. Any gravel used around pipe perforations shall be of a dimension so as not to penetrate or block perforations.
- (c) Collection devices connector assembly shall include a positive closing throttle valve, any necessary seals and couplings, access couplings and at least one sampling port.

(Ref. APC-S-6, Section III.A.3(a) and 40 CFR 60.759(b) )

- 3.D.3 When required by 40 CFR 60, Subpart WWW, the permittee shall convey the landfill gas to a control system in compliance with Condition 3.B.7 of this permit through collection header pipes. The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended use period of the gas moving equipment. (Ref. APC-S-6, Section III.A.3(a) and 40 CFR 60.759(c))

## SECTION 4. COMPLIANCE SCHEDULE

- 4.1 Unless otherwise specified herein, the permittee shall be in compliance with all requirements contained herein upon issuance of this permit.
- 4.2 Except as otherwise specified herein, the permittee shall submit to the Permit Board and to the Administrator of EPA Region IV a certification of compliance with permit terms and conditions, including emission limitations, standards, or work practices, by January 31 for the preceding calendar year. Each compliance certification shall include the following:
- (a) the identification of each term or condition of the permit that is the basis of the certification;
  - (b) the compliance status;
  - (c) whether compliance was continuous or intermittent;
  - (d) the method(s) used for determining the compliance status of the source, currently and over the applicable reporting period;
  - (e) such other facts as may be specified as pertinent in specific conditions elsewhere in this permit. (Ref.: APC-S-6, Section III.C.5.a.,c.,&d.)
- 4.3 The permittee shall comply with all applicable requirements and limitations and any subsequent future revisions to the National Emission Standards for Hazardous Air Pollutants, 40 CFR 63, Subpart AAAA, as specified in Conditions 3.B.12, 5.B.20, 5.B.21 and 5.C.5 by the date the landfill is required to install the gas collection and control system to comply with 40 CFR 60.752(b)(2) of Subpart WWW,. (Ref. 40 CFR 63, Subpart AAAA, §63.1945(d)).
- 4.4 The permittee shall comply with all applicable requirements and limitations and any subsequent future revisions to Standards of Performance for Stationary Spark Ignition Internal Combustion Engines, 40 CFR 60 Subpart JJJJ, as specified in Conditions 3.B.20, 3.B.21, and 3.B.22 by the date the stationary spark ignition internal combustion engines become operational (Ref 40 CFR Subpart JJJJ, §60.4230(a)(4)).

## SECTION 5. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

### A. General Monitoring, Recordkeeping and Reporting Requirements

- 5.A.1 The permittee shall install, maintain, and operate equipment and/or institute procedures as necessary to perform the monitoring and recordkeeping specified below.
- 5.A.2 In addition to the recordkeeping specified below, the permittee shall include with all records of required monitoring information the following:
- (a) the date, place as defined in the permit, and time of sampling or measurements;
  - (b) the date(s) analyses were performed;
  - (c) the company or entity that performed the analyses;
  - (d) the analytical techniques or methods used;
  - (e) the results of such analyses; and
  - (f) the operating conditions existing at the time of sampling or measurement. (Ref.: APC-S-6, Section III.A.3.b(1)(a)-(f))
- 5.A.3 Except where a longer duration is specified in an applicable requirement, the permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (Ref.: APC-S-6, Section III.A.3.b(2))
- 5.A.4 Except as otherwise specified herein, the permittee shall submit reports of any required monitoring by July 31 and January 31 for the preceding six-month period. All instances of deviations from permit requirements must be clearly identified in such reports and all required reports must be certified by a responsible official consistent with APC-S-6, Section II.E. (Ref.: APC-S-6, Section III.A.3.c(1))
- 5.A.5 Except as otherwise specified herein, the permittee shall report all deviations from permit requirements, including those attributable to upsets, the probable cause of such deviations, and any corrective actions or preventive measures taken. Said report shall be made within five (5) days of the time the deviation began. (Ref.: APC-S-6, Section III.A.3.c.(2))

- 5.A.6 Except as otherwise specified herein, the permittee shall perform emissions sampling and analysis in accordance with EPA Test Methods and with any continuous emission monitoring requirements, if applicable. All test methods shall be those versions or their equivalents approved by the DEQ and the EPA.
- 5.A.7 The permittee shall maintain records of any alterations, additions, or changes in equipment or operation.

**B. Specific Monitoring and Recordkeeping Requirements**

Emission Point(s)	Pollutant/Parameter Monitored	Monitoring/Recordkeeping Requirements	Condition Number	Applicable Requirement
For all operating conditions				
AA-001	Flame	Maintain a flare flame at all times when the collected gas is routed to the flare and keep maintenance records	5.B.1	APC-S-6, Section III.A.3(a)(2)
AA-003	Visible Emissions	Annual compliance determination	5.B.2	APC-S-6, Section III.A.3(b)(3)
AA-003	Flare bypass	Maintain records by continuous records or monthly inspections as applicable	5.B.7	APC-S-6, Section III.A.3(b) and 40 CFR 60.758(c)(2)
AA-003	Flame	Maintain continuous records of flame or flare pilot flame monitoring and records for all periods of operations in which flame or flare pilot flame is absent	5.B.8	APC-S-6, Section III.A.3(b) and 40 CFR 60.758(b)(4)
AA-002	Certified SI ICE	Maintain records of conducted maintenance and a maintenance plan for the engine(s). Conduct initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, which ever comes first.	5.B.9	40 CFR 60.4243(b)(2)(ii)
For operating conditions when calculated NMOC emission rates, site-specific NMOC emission rates, or site-specific NMOC emission rates using site-specific methane generation rates are greater than 50 Mg/yr				
AA-001	SSM Plan	Develop and implement a written Startup, Shutdown, and Malfunction (SSM) Plan	5.B.20	40 CFR 63, Subpart AAAAA
AA-001	CH4	When required, the permittee shall monitor surface concentrations of methane	5.B.22	40 CFR 60.755(c)
AA-001	Temperature, Pressure, and N or O <sub>2</sub>	Monitor monthly at each wellhead	5.B.26	APC-S-6, Section III.A.3(a)(2) and 40 CFR 60.755(a)

- 5.B.1 For Emission Point AA-001 to show compliance with Condition 3.B.15 of this permit, the permittee shall maintain a flare flame at all times when the collected gas is routed to the flare and keep records of all maintenance performed on the flare in order to operate the flare in a manner consistent with good air pollution control practices to minimize emissions. (Ref.: APC-S-6, Section III.A.3(a)(2))
- 5.B.2 For Emission Point AA-003 to show compliance with Condition 3.B.16, the permittee shall complete compliance determination annually and the results shall be maintained in the facility operating record for a period of five (5) years. (Ref.: APC-S-6, Section III.A.3(b)(2))
- 5.B.3 For Emission Point AA-003 to show compliance with Condition 3.B.18, the permittee shall calculate the net heating value of the gas being combusted in a flare using the following equation:

$$H_T = K * \sum_{i=1}^n (C_i * H_i)$$

Where:

$H_T$  = Net heating value of the sample, MJ/scm; where the net enthalpy per mole of offgas is based on combustion at 25 °C and 760 mm Hg; but the standard temperature for determining the volume corresponding to one mole is 20 °C;

$C_i$  = Concentration of sample component "i" in ppm on a wet basis, as measured for organics by Reference Method 18 and measured for hydrogen and carbon monoxide by ASTM D1946-77 or 90 (Reapproved 1994) (Incorporated by reference as specified in 40 CFR 60.17);

$H_i$  = Net heat of combustion of sample component "i" kcal/g mole at 25 °C and 760 mm Hg. The heats of combustion may be determined using ASTM D2382-76 or 88 and D4809-95 (incorporated by reference as specified in 40 CFR 60.17), if published values are not available or cannot be calculated.

$$K = \text{Constant} = 1.740 \times 10^{-7} \left( \frac{1}{\text{ppm}} \right) \left( \frac{\text{g mole}}{\text{scm}} \right) \left( \frac{\text{MJ}}{\text{kcal}} \right)$$

Where the standard temperature for  $\left( \frac{\text{g mole}}{\text{scm}} \right)$  is 20 °C.  
(Ref.: APC-S-6, Section III.A.3 and 40 CFR 60.18(f)(3))

- 5.B.4 For Emission Point AA-003, , the actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D of 40 CFR 60, Subpart A, Appendix

A as appropriate; by the unobstructed (free) cross sectional area of the flare tip. (Ref.: APC-S-6, Section III.A.3(a) and 40 CFR 60.18(f)(4))

- 5.B.5 For Emission Point AA-003, the maximum permitted velocity,  $V_{\max}$ , for steam-assisted or non-assisted flares shall be determined by the following equation:

$$\text{Log}_{10}(V_{\max}) = (H_T + 28.8)/31.7, \text{ where,}$$

$V_{\max}$  = Maximum permitted velocity, M/sec

28.8 = Constant

31.7 = Constant

$H_T$  = The net heating value as determined in Condition 5.B.3  
(Ref.: APC-S-6, Section III.A.3(a) and 40 CFR 60.18(f)(5))

- 5.B.6 For Emission Point AA-003 to comply with Condition 3.B.17, the maximum permitted velocity,  $V_{\max}$ , for air-assisted flares shall be determined by the following equation:

$$V_{\max} = 8.706 + 0.7084(H_T), \text{ where,}$$

$V_{\max}$  = Maximum permitted velocity, m/sec

8.706 = Constant

0.7084 = Constant

$$H_T = K * \sum_{i=1}^n (C_i * H_i)$$

(Ref.: APC-S-6, Section III.A.3(a) and 40 CFR 60.18(f)(6))

- 5.B.7 When a bypass is present on the flare, the permittee shall maintain up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines. (Ref.: APC-S-6, Section III.A.3(b) and 40 CFR 60.758(c)(2))
- 5.B.8 The permittee shall maintain up-to-date, readily accessible continuous records of the flame or flare pilot flame monitoring specified by this permit and up-to-date readily accessible records of all periods of operations in which the flame or flare pilot flame is absent. This shall be considered an exceedance and shall be reported per Condition 5.C.6 of this permit. (Ref.: APC-S-6, Section III.A.3(b) and 40 CFR 60.758(b)(4))
- 5.B.9 For Emission Point AA-002, the SI ICE shall be considered non-certified if the permittee does not operate and maintain the certified SI ICE and control device in accordance to the manufacturer's emission-related written instructions. To demonstrate compliance the permittee shall keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. Additionally, the permittee shall conduct



an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. (Ref.: 40 CFR 60.4243(b)(2)(ii))

- 5.B.10 For Emission Point AA-002, should the SI ICE become certified, the permittee shall operate and maintain the certified SI ICE and control device according to the manufacturer's emission-related written instructions. To demonstrate compliance with this condition, records shall be kept of the conducted maintenance. (Ref.: 40 CFR 60.4243(b)(1))
- 5.B.11 For Emission Point AA-002, if performance testing is required in accordance to Condition 5.B.9, the permittee shall conduct the performance test within 10 percent of 100 percent peak (or highest achievable) load and in accordance with 40 CR 60.8 and under the specific conditions referenced in 40 CFR 60 Subpart JJJJ Table 2. Performance tests shall not be conducted during periods of startup, shutdown or malfunction as specified in 40 CFR 60.8(c). If the SI ICE is non-operational, engine startup is not required solely to conduct a performance test; however, the permittee shall conduct the performance test immediately upon startup of the engine. (Ref.: 40 CFR 60.4244(a) and (b))
- 5.B.12 For Emission Point AA-002, the permittee shall conduct three separate test runs for each performance test required in Condition 5.B.11 as specified in 40 CFR 60.8(f). Each test shall be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour. (Ref.: 40 CFR 60.4244(c))
- 5.B.13 For Emission Point AA-002 in accordance with Condition 5.B.9, the permittee shall demonstrate compliance with NO<sub>x</sub>, CO and VOC. To demonstrate compliance with the NO<sub>x</sub> mass per unit output emission limit, the permittee shall calculate NO<sub>x</sub> using Equation 1 in 40 CFR 60.4244(d). To demonstrate compliance with CO mass per unit output emission limitation, the permittee shall calculate CO using Equation 2 in 40 CFR 60.4244(e). To demonstrate compliance with VOC mass per unit output emission limitations, the permittee shall calculate VOC using Equation 3 in 40 CFR 60.4244(f) or guidelines listed in 40 CFR 60.4244(g). (Ref.: 40 CFR 60.4244)
- 5.B.14 For Emission Point AA-002, the permittee shall keep records for the following information:
- (a) all notification submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notification,
  - (b) maintenance conducted on the engine(s),
  - (c) for certified SI ICE, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054 and 1060 as applicable, and
  - (d) for non-certified SI ICE subject to Condition 5.B.10, documentation that the engine meets the emission standards.

(Ref.: 40 CFR 60.4245(a))

- 5.B.15 For Emission Point AA-002, the permittee shall submit initial notification as required in 40 CFR 60.7(a)(1) for SI ICE that have not been certified by an engine manufacturer to meet emission standards in Condition 3.B.20. The initial notification shall include:
- (a) name and address of the owner or operator,
  - (b) the address of the affected source,
  - (c) engine information including make, model, engine family, serial number, model year, maximum engine power and engine displacement,
  - (d) emission control equipment, and
  - (e) fuel used.
- (Ref.: 40 CFR 60.4245(c))
- 5.B.16 For Emission Point AA-001, except as provided in §60.752(b)(2)(i)(B), upon exceedance of the 50 Mg/year of NMOCs as determined in accordance with §60.754(a) and/or §60.754(b) and the date that the gas system must be installed to comply with 40 CFR 60, Subpart WWW the permittee shall comply with the monitoring requirements of §60.756. (Ref.: 40 CFR 60.756)
- 5.B.17 For Emission Point AA-001, except as provided in §60.752(b)(2)(i)(B), the permittee shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.(Ref.: 40 CFR 60.758(a))
- 5.B.18 For Emission Point AA-001, except as provided in §60.752(b)(2)(i)(B), the permittee shall submit a closure report to the Department within 30 days of waste acceptance cessation. If a closure report has been submitted to the Department, no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR 60.7(a)(4). (Ref.: 40 CFR 60.757(d)).
- 5.B.19 For Emission Point AA-001, except as provided in §60.752(b)(2)(i)(B), upon exceedance of 50 Mg/year of NMOCs as determined in accordance with §60.754(a) and/or §60.754(b) the permittee shall comply with the recordkeeping requirements of §60.758(b), (c), (d) and (e). (Ref.: 40 CFR 60.758(b), (c), (d) and (e))
- 5.B.20 For Emission Point AA-001, when required the permittee shall develop and implement a written Startup, Shutdown, and Malfunction (SSM) Plan according to the provisions in 40 CFR 63.6(e)(3). A copy of the SSM plan must be maintained on site. (Ref.: 40 CFR 63, Subpart AAAA, §63.1960)
- 5.B.21 For Emission Point AA-001, when required the permittee shall maintain records and reports as specified in 40 CFR Part 60, Subpart WWW, with one exception: once the permittee is required to submit the annual report required in §60.757(f), the permittee shall

submit the information in accordance with Condition 5.A.4 of this permit. (Ref.: 40 CFR 63 Subpart AAAA, §63.1980(a))

- 5.B.22 When required by 40 CFR 60, Subpart WWW, the permittee shall monitor surface concentrations of methane using the following procedures to ensure compliance with Condition 3.B.26 of this permit:
- (a) After installation of the collection and control system, the permittee shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site-specific established spaced) for each collection area. Monitoring shall occur on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.755(d).
  - (b) The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.
  - (c) Surface emission monitoring shall be performed in accordance with Section 4.3.1 of Method 21 of 40 CFR 60, Appendix A, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.
  - (d) Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in parts (1), (2), (3), (4) and (5) of this condition shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of Condition 3.B.26 of this permit.
    - (1) The location of each monitored exceedance shall be marked and the location recorded.
    - (2) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance.
    - (3) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action specified in part (5) of this Condition shall be taken, and no further monitoring of that location is required until the action specified in part (5) of this Condition has been taken.

- (4) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background after re-monitoring specified in parts (2) and (3) of this Condition shall be re-monitored one (1) month from the initial exceedance. If the one (1) month re-monitoring shows a concentration less than 500 ppm above background, no further re-monitoring of that location is required until the next quarterly monitoring period. If the one (1) month re-monitoring shows an exceedance, the actions specified in parts (3) and (5) of this Condition shall be taken.
- (5) For any location where monitored methane concentrations equal or exceeds 500 ppm above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipers or control device, and a corresponding timeline for installation may be submitted to the DEQ for approval.

(Ref.: 40 CFR 60.755(c))

5.B.23 When required by 40 CFR 60, Subpart WWW, the permittee shall comply with the following instrumentation specifications and procedures for surface emission monitoring devices:

- (a) The portable analyzer shall meet the instrument specification provided in Section 3 of Method 21 of 40 CFR 60, Appendix A, except that methane shall replace all references to VOC.
- (b) The calibration gas shall be methane diluted to a nominal concentration of 500 parts per million in air.
- (c) To meet the performance evaluation requirements in Section 3.1.3 of Method 21 of 40 CFR 60, Appendix A, the instrument evaluation procedures of Section 4.4 of Method 21 of 40 CFR 60, Appendix A shall be used.
- (d) The calibration procedures provide in Section 4.2 of Method 21 of Appendix A of this part shall be followed immediately before commencing a surface monitoring survey.

(Ref.: 40 CFR 60.755(d))

5.B.24 When required by 40 CFR 60, Subpart WWW, the permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis. (Ref.: 40 CFR 60.755(c)(5))

5.B.25 The provisions of Conditions 5.B.22 will apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of the start-up, shut-down or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices. (Ref.: APC-S-6, Section III.A.3(a)(2) and 40 CFR

60.755)

5.B.26 Upon exceedance of 50 Mg/yr of NMOC and after installation of a gas collection and control system, the permittee shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and:

- (a) Measure the gauge pressure in the gas collection header on a monthly basis. If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except as allowed in Condition 3.B.24 of this permit.
- (b) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis. If an exceedance of the limits established in Condition 3.B.25 of this permit is determined within any monitored well, action shall be initiated to correct the exceedance within 5 calendar days or an alternative timeline approved by DEQ. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the permittee shall develop a modification of the collection system to address the exceedance. Within 60 days of the first measurement, the modification plan shall be submitted to the DEQ for review. Any attempted corrective action shall not cause exceedances of other operational or performance standards
- (c) Monitor temperature of the landfill gas on a monthly basis as provided in Condition 3.B.25 of this permit.

(Ref.: APC-S-6, Section III.A.3(a)(2) and 40 CFR 60.755(a))

5.B.27 Upon exceedance of 50 Mg/yr of NMOC and after installation of a collection and control system, the permittee shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed herein. Records shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal.

- (a) The maximum expected gas generation flow rate.
- (b) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices.
- (c) All visible emission readings, heat content determination, flow rate or bypass flow rate measurements and exit velocity determinations made during the performance test as specified in Conditions 3.B.16 and 3.B.18 of this permit.; continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flare flame is absent.

(Ref.: APC-S-6, Section III.A.3(b) and 40 CFR 60.758(b)(1))

5.B.28 When required by 40 CFR 60, Subpart WWW, the permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. (Ref.: APC-S-6, Section III.A.3(b) and 40 CFR 60.758(c))

- 5.B.29 When required by 40 CFR 60, Subpart WWW, the permittee shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector. (Ref.: APC-S-6, Section III.A.3(b) and 40 CFR 60.758(d))
- 5.B.30 When required by 40 CFR 60, Subpart WWW, the permittee shall keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors. (Ref.: APC-S-6, Section III.A.3(b) and 40 CFR 60.758(d)(1))
- 5.B.31 When required by 40 CFR 60, Subpart WWW, the permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or non-degradable wastes excluded from collection as well as any non-productive areas excluded from the collection system. (Ref.: APC-S-6, Section III.A.3(b))

C. Specific Reporting Requirements

Emission Point(s)	Pollutant/Parameter Monitored	Reporting Requirement	Condition Number	Applicable Requirement
AA-001	NMOC	NMOC emission rate report submitted annually or a 5-year estimate of NMOC emission rate	5.C.1	40 CFR 60.757(b)
AA-001	Gas Collection and Control System	When required, annual report of operation of gas collection and control system	5.C.6	40 CFR 60.757(f)
AA-002	Stationary internal combustion engines	When required, submit a copy of each performance test conducted on all stationary internal combustion engines	5.C.8	40 CFR 60.4245(d)

5.C.1 For Emission Point AA-001, the permittee shall submit a NMOC emission rate report to the Department annually, except as provided for in §60.757(b)(1)(ii), (b)(3) or Condition 5.C.1.b of this permit. The Department may request additional information to verify the reported NMOC emission rate.

- (a) The NMOC emission rate report shall contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in §60.754(a) or (b), as applicable. If the estimated NMOC emission rate as reported in the annual report to the DEQ is less than 50 megagrams per year in each of the next five (5) consecutive years, the permittee may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. This estimate shall include:

- (1) the current amount of solid waste-in-place

- (2) the estimated waste acceptance rate for each year of the 5 years for which a NMOC emission rate is estimated
- (3) all data and calculations upon which this estimate is based shall be provided to the DEQ.

This estimate shall be revised at least once every 5 years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the 5-year estimate, a revised 5-year estimate shall be submitted to the DEQ. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.

- (b) The permittee shall become exempt from the requirements of §60.757(b)(1) and (2), after the installation/expansion of a collection and control system is demonstrated to be in compliance with §60.752(b)(2), during such time as the collection and control system is in operation and in compliance with §§60.753 and 60.755.  
(Ref.: 40 CFR 60.757(b))

5.C.2 For Emission Point AA-001, the permittee subject to §60.752(b)(2)(i) and 3.B.1, the permittee shall submit a collection and control system design demonstration to DEQ within 1 year of the first report, required under §60.757(b), in which the emission rate exceeds 50 megagrams per year, except as follows:

- (a) If the permittee elects to recalculate the NMOC emission rate after Tier 2 NMOC sampling and analysis as provided in §60.754(a)(3) and/or §60.754(b) and the resulting rate is less than 50 megagrams per year, annual periodic reporting shall be resumed, using the Tier 2 determined site-specific NMOC concentration, until the calculated emission rate is equal to or greater than 50 megagrams per year or the landfill is closed. The revised NMOC emission rate report, with the recalculated emission rate based on NMOC sampling and analysis, shall be submitted within 180 days of the first calculated exceedance of 50 megagrams per year.
- (b) If the permittee elects to recalculate the NMOC emission rate after determining a site-specific methane generation rate constant (k), as provided in Tier 3 in §60.754(a)(4), and the resulting NMOC emission rate is less than 50 megagrams per year, annual periodic reporting shall be resumed. The resulting site-specific methane generation rate constant (k) shall be used in the emission rate calculation until such time as the emissions rate calculation results in an exceedance. The revised NMOC emission rate report based on the provisions of §60.754(a)(4) and the resulting site-specific methane generation rate constant (k) shall be submitted to the Department within 1 year of the first calculated emission rate exceeding 50 megagrams per year.
- (c) The permittee may use other methods to determine the NMOC concentration or a site-specific methane generation rate constant (k) as an alternative to the methods

required in paragraphs 5.C.2(a) and (b) if the method has been approved by the Department (or approved by EPA).  
(Ref.: 40 CFR 60.757(c))

- 5.C.3 For Emission Point AA-001, upon exceedance of 50 Mg/year of NMOCs as determined in accordance with §60.754(a) and §60.754(b), the permittee shall comply with the reporting requirements in §60.757(d), (e), (f) and (g). (Ref.: 40 CFR 60.757(d), (e), (f) and (g))
- 5.C.4 For Emission Point AA-001, the permittee shall comply with §61.153 for asbestos-containing waste material received from a source covered under §§61.149, 61.150, or 61.155. The full text of the referenced regulations is contained in Appendix C to this permit. (Ref.: 40 CFR 61.153)
- 5.C.5 For Emission Point AA-001, when required, the permittee must also keep records and reports as specified in the general provisions of 40 CFR Part 60 and 40 Part 63 as shown in Table 1 of Subpart AAAA. Applicable records in the general provisions include items such as SSM Plans and SSM Plan reports. (Ref.: 40 CFR 63, Subpart AAAA, §63.1980(b))
- 5.C.6 When required by 40 CFR 60, Subpart WWW, the permittee shall submit to DEQ annual reports of the recorded information described in this paragraph:
- (a) Value and length of time for exceedance of applicable parameters monitored under this permit.
  - (b) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified by this permit.
  - (c) Description of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating.
  - (d) All periods when the collection system was not operating in excess of 5 days.
  - (e) The location of each exceedance of the 500 parts per million methane concentration as required by this permit and the concentration recorded at each location for which an exceedance was recorded in the previous month.
  - (f) The date of installation and the location of each well or collection system expansion added pursuant to Conditions 3.D.1 of this permit.
- (Ref.: APC-S-6, Section III.A.3(c) and 40 CFR 60.757(f))
- 5.C.7 When required by 40 CFR 60, Subpart WWW, the permittee shall submit the report required in Condition 5.C.6 of this permit on or before January 31<sup>st</sup> of each year for the preceding calendar year. (Ref.: APC-S-6, Section III.A.3(c))
- 5.C.8 For Emission Point AA-002, the permittee shall submit a copy of each performance test conducted on all stationary internal combustion engines when performance testing is required. The performance test results shall be submitted within 60 days after the test has



been completed (Ref.: 40 CFR 60.4245(d))

**SECTION 6. ALTERNATIVE OPERATING SCENARIOS**

6.1 None permitted.

## SECTION 7. TITLE VI REQUIREMENTS

The following are applicable or potentially applicable requirements originating from Title VI of the Clean Air Act – Stratospheric Ozone Protection. The full text of the referenced regulations may be found on-line at <http://ecfr.gpoaccess.gov> under Title 40, or DEQ shall provide a copy upon request from the permittee.

- 7.1 If the permittee produces, transforms, destroys, imports or exports a controlled substance or imports or exports a controlled product, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart A – Production and Consumption Controls.
- 7.2 If the permittee performs service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart B – Servicing of Motor Vehicle Air Conditioners.
- 7.3 The permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart E – The Labeling of Products Using Ozone-Depleting Substances, for the following containers and products:
  - (a) All containers in which a class I or class II substance is stored or transported;
  - (b) All products containing a class I substance; and
  - (c) All products directly manufactured with a process that uses a class I substance, unless otherwise exempted by this subpart or, unless EPA determines for a particular product that there are no substitute products or manufacturing processes for such product that do not rely on the use of a class I substance, that reduce overall risk to human health and the environment, and that are currently or potentially available. If the EPA makes such a determination for a particular product, then the requirements of this subpart are effective for such product no later than January 1, 2015.
- 7.4 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart F – Recycling and Emissions Reduction:
  - (a) Servicing, maintaining, or repairing appliances;
  - (b) Disposing of appliances, including small appliances and motor vehicle air conditioners; or
  - (c) Refrigerant reclaimers, technician certifying programs, appliance owners and operators, manufacturers of appliances, manufacturers of recycling and recovery equipment, approved recycling and recovery equipment testing organizations,

persons selling class I or class II refrigerants or offering class I or class II refrigerants for sale, and persons purchasing class I or class II refrigerants.

- 7.5 The permittee shall be allowed to switch from any ozone-depleting substance to any acceptable alternative that is listed in the Significant New Alternatives Policy (SNAP) program promulgated pursuant to 40 CFR Part 82, Subpart G – Significant New Alternatives Policy Program. The permittee shall also comply with any use conditions for the acceptable alternative substance.
- 7.6 If the permittee performs any of the following activities, the permittee shall comply with the applicable requirements of 40 CFR Part 82, Subpart H – Halon Emissions Reduction:
- (a) Any person testing, servicing, maintaining, repairing, or disposing of equipment that contains halons or using such equipment during technician training;
  - (b) Any person disposing of halons;
  - (c) Manufacturers of halon blends; or
  - (d) Organizations that employ technicians who service halon-containing equipment.

## APPENDIX A

### List of Abbreviations Used In this Permit

APC-S-1	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
APC-S-2	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
APC-S-3	Regulations for the Prevention of Air Pollution Emergency Episodes
APC-S-4	Ambient Air Quality Standards
APC-S-5	Regulations for the Prevention of Significant Deterioration of Air Quality
APC-S-6	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
APC-S-7	Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act
BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
lbs/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards For Hazardous Air Pollutants, 40 CFR 61
	or
	National Emission Standards For Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMVOC	Non-Methane Volatile Organic Compounds
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PM	Particulate Matter
PM <sub>10</sub>	Particulate Matter less than 10 Fm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound

## **APPENDIX B**

**40 CFR 60, SUBPART WWW - STANDARDS OF PERFORMANCE FOR MUNICIPAL  
SOLID WASTE LANDFIL**

## **APPENDIX C**

### **40 CFR 61, SUBPART M - NATIONAL EMISSION STANDARD FOR ASBESTOS**

## **APPENDIX D**

### **40 CFR PART 63, SUBPART AAAA, NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: MUNICIPAL SOLID WASTE LANDFILLS**



# **APPENDIX E**

## **40 CFR PART 60, SUBPART A – GENERAL PROVISIONS**

## **APPENDIX F**

### **40 CFR PART 63, SUBPART A, NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS: GENERAL PROVISIONS**

# **Attachment G**

## **Fuel Adjustment Example**

## Fuel Adjustment Example

In addition to the monthly payment as described in Work Assignment No. 2, beginning October 1, 2009, and extending through the end of the contract period, there shall be calculations and payments on a monthly basis for fuel adjustments (due to the Contractor or due to the Authority). Compensation for said fuel adjustments shall be due and payable, after presentation of proper and accurate invoice, on or before the 20<sup>th</sup> day of each month following the month of actual purchases of off-road diesel fuel by the Contractor. The monthly fuel adjustments shall be based on the following factors and calculations:

- The fuel adjustment shall be based on the base price of \$2.45 per gallon of off-road # 2 diesel fuel.
- The fuel adjustment shall be based on the cost per gallon for Gulf Coast #2 Diesel – All Types as reported by the Energy Information Administration of the U.S. Department of Energy (“EIA/DOE”) in the Spreadsheet of Historical Data – Weekly Retail On-Highway Diesel Price Index. (202-586-8959 or [www.eia.doe.gov](http://www.eia.doe.gov)).
- The average monthly price shall be determined by the weekly averages (“EIA/DOE”) that occur within the month the fuel adjustment is being calculated. Some months may contain four (4) weekly averages and others five (5) weekly averages, as indicated by the following examples:

#### Example 1 (Five Weeks)

March 2, 2009 - 208.7  
 March 9, 2009 - 204.5  
 March 16, 2009- 201.7  
 March 23, 2009- 209.0  
 March 30, 2009 -222.1

TOTAL - 1046.00

Divided by 5 weeks = 209.20  
 Converts to \$2.0920 per gallon

#### Example 2 (Four Weeks)

May 4, 2009 – 218.5  
 May 11, 2009 – 211.6  
 May 18, 2009 – 223.1  
 May 25, 2009 – 227.4

TOTAL - 880.60

Divided by 4 weeks = 220.15  
 Converts to \$2.2015 per gallon

- To determine the “off-road” average cost the following calculations shall apply:

Subtract Current Federal Tax	(\$0.244)
Subtract Current MS Tax (Hwy Diesel)	(\$0.184)
Add Current MS Tax (Off Rd Diesel)	\$0.0615
Add Racking Fee	<u>\$0.005</u>
Amount per gallon to deduct	(\$0.3615)

*Thus, .3615 cents shall be deducted from the monthly average cost to determine the applicable off-road diesel cost per gallon.*

- Each month the Contractor’s invoice (as it relates to fuel adjustment) shall indicate the number of gallons

# **Attachment H**

## **Proposal Summary Form**

**Three Rivers Solid Waste Management Authority  
Landfill Operations and Construction  
Proposal Summary Form**

***The Offeror shall submit a Proposal Summary Form with the proposal submittal.  
The Proposal Summary Form shall be the first page of the proposal.***

Offeror Name: \_\_\_\_\_

Contact person: \_\_\_\_\_

Telephone No. : \_\_\_\_\_ Office \_\_\_\_\_ Mobile \_\_\_\_\_

Email Address: \_\_\_\_\_

Mailing Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

$$\text{Monthly Payment} = (A) \times (\text{Previous Months Tonnage}) \pm B \pm C - D + E$$

Where:

**A** = Cost per ton of solid waste for the day-to-day operation of the Landfill including all utilities, maintenance, salaries, supplies, fuel, training, site improvements, leachate management, environmental protections, insurance, bonds, and other overhead related items. This item may be CPI-Southeastern adjusted annually at the request of the Contractor or Authority in accordance with Section VII of the RFP.

**B** = Cost adjustment for off-road #2 diesel in accordance with Section VII and Attachment G of the RFP.

**C** = Cost adjustment for leachate management in accordance with Section VIII (4.0) of the RFP.

**D** = Cost adjustment for retainage (if necessary) in accordance with Section VIII (3.2.3) of the RFP.

**E** = Cost adjustment (if necessary) for environmental sampling in accordance with Section VIII (11.0) of the RFP.

A = \$ \_\_\_\_\_ per ton \_\_\_\_\_ per ton  
Written

To fully evaluate the qualifications of each Offeror's proposal, the following information must be a part of the Offeror's submission:

1. Firm Experience and Description of Projects

The Offeror is required to submit a description of his/her firm and a description of recent similar projects, including a list of clients for whom the same or similar work has been performed within the last ten (10) years. The name and contact information of a representative for each of the identified clients shall be included. Each Offeror must be able to demonstrate a minimum of five (5) years experience operating Subtitle D landfills while managing leachate, leachate recirculation, and landfill gas management systems located therein and constructing landfills. Offeror shall demonstrate the ability to construct landfills in a cost-effective manner by providing a description and landfill per-acre cost of one or more prior projects representative of the Offeror's construction capabilities.

2. Personnel

The Offeror is required to submit the names and qualifications for those members of the firm who will be directly involved with or responsible for the proposed project. Resumes of the proposed facility manager, environmental coordinator, key design engineer(s), special waste consultant and the regional manager shall be provided.

3. Financial Information

Each Offeror shall present financial statements for the past three (3) years in 10-K form for publicly held companies and audited financial statements for private corporations which shall be treated as confidential by the Authority. The Authority reserves the right to reject the proposal of any Offeror which the Authority determines may not have the financial capability to perform for the life of the Agreement. Any Offeror which is a subsidiary to another corporation shall provide certification from the ultimate parent corporation that the assets of the parent corporation shall be available to meet the obligations of the subsidiary Offeror.

4. Compliance History

The Offeror shall disclose history of compliance with federal, state and local environmental laws and regulations. Copies of all Notice of Violations (NOVs) or any associated fines, penalties, or settlements within the past five (5) years shall be disclosed in the Offeror's response to this RFP. NOVs shall be inclusive of Mississippi and other States that are subject to the rules and regulations of any EPA or OSHA regulations or individual state regulations.

In addition, the Authority reserves the right to utilize other evaluation factors as provided by law to evaluate the qualifications of each Offeror's proposal.

Printed Name of Authorized Representative: \_\_\_\_\_

Signature of Authorized Representative: \_\_\_\_\_

Date: \_\_\_\_\_