

OPERATIONS PLAN
CMS LANDFILL V
CONCORD, NORTH CAROLINA

Owner: BFI Waste Systems of North America, Inc.

Operator: BFI Waste Systems of North America, Inc.

This Operations Plan has been prepared in accordance with the State of North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Management Rule .1625 & .1626 – Operational Requirements for MSWLF Facilities.

This Plan has been prepared for:

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Table Of Contents

	<u>Page</u>
1.0 LANDFILL OPERATIONS AND MAINTENANCE	1
1.1 Landfill Cell Sequencing	1
1.2 Stormwater Management	2
1.3 Leachate Management	3
1.4 Placement of Waste and Cover Requirements	3
1.5 Waste Acceptance and Disposal	4
1.6 Facility Personnel Training	7
1.7 Inspection Procedures	7
1.8 Record Keeping	7
2.0 FACILITY OPERATIONS AND MAINTENANCE	9
2.1 Erosion and Sedimentation Control	9
2.2 Access and Safety Requirements	10
2.3 Dust, Litter, Odor and Vectors	10
2.4 Landfill Signage	11
2.5 Fire Control	11
2.6 Explosive Gases Control	11
2.6.1 Permanent Methane Monitoring Wells	12
2.6.2 Methane Monitoring Well Construction	12
2.6.3 Methane Monitoring Procedures and Frequency	12
2.6.4 Reporting Requirements and Response Plan	13
2.7 Gas to Energy Facility	14
2.8 Leachate Management System	14
2.8.1 Leachate Management System Design	14
2.8.2 Sampling, Record Keeping & Reporting	16

APPENDIX

APPENDIX 1	Operations Plan for Petroleum Hydrocarbon Contaminated Soils for Use as Alternate Daily Cover
APPENDIX 2	Operations Plan for Solidification Facility
APPENDIX 3	Approval to Continue to Use Automobile Shredder Fluff as Alternate Daily Cover
APPENDIX 4	Approval for Alternative Daily Cover Request – Posi-Shell as an Alternative Daily Cover
APPENDIX 5	Waste Screening Form
APPENDIX 6	Operations Plan Drawings
APPENDIX 7	Methane Monitoring Well Plan & Well Schematic
APPENDIX 8	LFG Master Plan

1.0 LANDFILL OPERATIONS AND MAINTENANCE

CMS Landfill V is owned and operated by BFI Waste Systems of North America, Inc. Operation and maintenance of the facility is the responsibility of the Facility Manger, currently Mr. Timothy Schotsch. Mr. Cotton Spry is the operational manager who is also responsible for operation and maintenance of the landfill. The facility is located on property owned by BFI Waste Systems of North America, Inc. within the City Limits of Concord, North Carolina.

In accordance with Rule .1625 of the North Carolina Division of Waste Management Rules, an Operation Plan is required along with drawings to describe the existing site conditions, progression of operations, leachate and stormwater controls, special waste areas, buffer zones and borrow areas. The Operations Plan Drawings are included in Appendix 6 and include:

- Site Development Plan – shows existing conditions, existing structures and buffer zones.
- Phasing Plans for Phase 2 Expansion (Cells 2F, 2G & 2H), Phase 3, Phase 4 and Phase 5 – shows the progression of Cell development and operations
- North Borrow Area Grading Plan – Shows the proposed grades and remaining capacity for the Borrow area used for the facility located north of US Highway 29.
- Refer to the Engineering Plan Drawings for details concerning Leachate collection and removal.

1.1 Landfill Cell Sequencing

The initial Phase of construction and landfill development includes the continuation of Phase 2, specifically Cells 2F, 2G and 2H. Following the Phase 2 Expansion, Phase 3, Phase 4 and Phase 5 shall be developed in order. Phasing plans depicting the development of the Cells and Phases are included in Appendix 6 to show the progression of landfilling operations.

Cells 2F, 2G and 2H have been designed to contain “split sumps (two sumps per Cell) due to the groundwater surface maps (provided by ENSR Consulting & Engineering (NC), Inc.) depicting higher groundwater levels bisecting the proposed footprint from north to south. Therefore, each Cell shall promote leachate collection to the east and west utilizing a minimum post-settlement floor slope of two (2) percent. Phases 3, 4 and 5 may contain a similar design based upon the current Facility wide hydrogeologic characterization. However, the final design of these Phases will be dependent upon the future design hydrogeologic studies. Therefore, the proposed base grades for the future Phases may be adjusted based on the results of further studies.

Once the facility receives a permit to operate a Cell (2F, 2G or 2H), operations will begin on the east side of the Cell thereby activating the east sump for leachate collection. During operations on the east side, the west sump may still be treated as clean stormwater and not enter the leachate collection system. Once the first waste lift is across the east side of the Cell, the west side will be activated for leachate collection and waste placement.

Perimeter berms shall be constructed along the proposed limits of Cells and Phases. In areas where further landfill development is proposed, a temporary berm will be constructed to contain leachate within the cell limits but allow for an efficient "tie-in" to future cells. Details of the perimeter and temporary berms are shown in the Engineering drawings.

1.2 Stormwater Management

An erosion and sedimentation control plan has been designed for the construction, operation and closure of the Phase 2 Expansion and Phase 3. Plans for Phases 4 and 5 will be developed at a later date once base grades and footprints may be firmly established. Based on a 25-year, 24-hour storm for this area, stormwater runoff conveyances and devices were designed for the peak flow condition (construction, operations or closure). Stabilized channels will intercept stormwater runoff and direct flow to sediment basins. The sediment basins will allow sediment to settle to the floor of the basin, then allowing controlled discharge of stormwater to receiving waters.

During landfilling operations, the waste and daily cover shall be sloped to promote drainage away from the landfill. The subsequent runoff shall be intercepted by the erosion and sedimentation control devices and routed through the sediment basins.

Due to the proposed grading of Cells 2F, 2G and 2H, the cells are essentially divided into two subcells by containing a topographically high point in the center and low points to either side (east and west). Based on the Cell size averaging 14 acres with each sump area draining approximately 7 acres, segregation of leachate and stormwater is not proposed for the Phase 2 Expansion. Once the facility receives a permit to operate a Cell (2F, 2G or 2H), operations will begin on the east side of the Cell thereby activating the east sump for leachate collection. During operations on the east side, the west sump may still be treated as clean stormwater and not enter the leachate collection system. Once the first waste lift is across the east side of the Cell, the west side will be activated for leachate collection and waste placement.

Proposed grading for Phases 3, 4 and 5 has not been finalized due to on-going water level measurements throughout the Phase footprints. Stormwater segregation within Cell footprints may be necessary within these Phases if final base grades warrant.

During landfilling operations, the waste and daily cover shall be sloped to promote drainage away from the landfill. The subsequent runoff shall be intercepted by the erosion and sedimentation control devices and routed through the sediment basins.

1.3 Leachate Management

A leachate collection system will be constructed above the composite liner system in each Cell. The leachate collection system will consist of a geocomposite drainage media that rests on the 60-mil high density polyethylene liner to collect and transport leachate along the Cell floor. A network of leachate collection pipes surrounded by #57 washed stone will be placed at various locations along the Cell floor to intersect flow of leachate along the top of protective cover and the geocomposite. The leachate collection pipes will tie-in to a leachate header line that will transport the collected leachate to the sump area for each Cell. At each sump area, a stainless steel pump will rest on the Cell floor housed in a high density polyethylene side-wall riser pipe to remove leachate from within the Cell and transport into the leachate transmission system. A high density polyethylene transmission pipe along with a series of manholes and lift stations shall transport leachate from each Cell to the on-site Pre-treatment Facility Storage Lagoon.

The leachate collection and removal system is designed so that no more than 12-inches of hydraulic head will act on the liner system during normal operating conditions. Cleanouts will be installed at the ends of the header pipes to provide necessary flushing of the system for maintenance as needed.

During the design of Cells 2F, 2G and 2H, the "HELP" model was used to generate leachate quantities for various stages of operation throughout this Phase. Based on the results of "HELP" model analysis, the peak leachate generation rate will occur when Cell 2F has reached final waste elevations and the western side of Cell 2G is activated for operations. The resulting peak leachate generation rate is 19,698 gallons per day. Based on averaging the various scenarios applied to the "HELP" model analysis, average leachate generation rates should be on the order of 13,280 gallons per day.

In order to evaluate historically high leachate generation rates, actual discharged amounts from 2003 are analyzed since 2003 was recorded as the "fifth wettest" year on record for this region. Beginning December 1, 2002 and ending December 31, 2003, CMS Landfill V discharged a total of 6,387,747 gallons of pretreated leachate to the Rocky River Waste Water Treatment Plant. This volume equates to an average daily discharge rate of 16,130 gallons.

1.4 Placement of Waste and Cover Requirements

Waste placement shall proceed beginning with Cell 2F and proceed further into Cell 2G and the 2H. Following filling of the Phase 2 Expansion, operations will continue into Phase 3 followed by Phases 4 and 5. Initial waste placement in the Phase 2 Expansion Cells will begin in the eastern half of the Cell that is topographically divided by a ridge traveling north to south creating two separate sump areas. Waste shall be placed so that

standing water is not created behind the fill areas. As operations progress in the eastern half of a Cell, the western sump may still be pumped as stormwater into the erosion and sedimentation control system.

The initial "fluff" lift shall be a minimum 8-foot thick lift when placed across the Cell floor. Thereafter, waste shall be placed in approximately 30-foot maximum lifts placed in 2 to 3-foot increments by spreading across the Cell floor or previous lift prior to compaction. This process shall continue until proposed final grades are achieved.

Waste shall be compacted as densely as achievable to provide a foundation layer for subsequent waste lifts and to maximum airspace. A minimum of four passes with a "trash compactor" is recommended to achieve appropriate density. Additional passes may be required depending on the waste type. The daily working area for waste disposal shall be kept to a minimum to conserve daily cover requirements.

A minimum five (5) percent slope should be maintained on the surface of landfilling operations to promote drainage to the perimeter slopes. No standing water shall be created in, surrounding or above disposed waste.

Disposed waste shall be covered daily with a minimum of six (6) inches of soil. As discussed earlier in this Plan, alternate daily covers including petroleum contaminated soils (Appendix 1) and soil mixed with automobile shredder fluff (Appendix 3) are also permitted as daily cover. This facility has also been approved by the Division of Waste Management to continue use a synthetic tarp as daily cover. Recently, the Division of Waste Management approved a demonstration period to use Posi-Shell as an alternative daily cover (Appendix 4). Upon successful completion of the demonstration period, the Division may approve the use of Posi-Shell as alternative daily cover for facility operations.

If an area of the landfill has not reached proposed final waste grades and will not be active for a period of twelve months or more, intermediate cover consisting of twelve (12) inches of soil shall be placed over the area. Intermediate cover areas shall be stabilized by seeding to promote vegetation.

1.5 Waste Acceptance and Disposal

As defined by the State of North Carolina 15A NCAC 13B .1602, CMS Landfill V will accept waste types defined as Commercial Solid Waste, Household Waste, Construction & Demolition Debris and Industrial Solid Waste. Generally, waste acceptance criteria shall remain as in place for current and on-going operations.

Currently, non-hazardous liquid wastes are accepted at the facility and directed to the Solidification Facility. This is a Division of Waste Management permitted Demonstration Project (last modified December 30, 1999) activity requiring the solidification of non-hazardous liquid waste using reagents prior to disposal in the landfill. The Paint Filter Test (EPA Method 9095) is the passing criteria for solidification

of liquid waste prior to disposal. A copy of the Operations Plan for Solidification Facility is included in Appendix 2 of this Plan.

The CMS Landfill V Facility also accepts petroleum contaminated soils for disposal or use as daily cover. This is a Division of Waste Management permitted Pilot Demonstration activity (February 5, 2004) at the Facility accepting soils that do not exceed a petroleum based concentration of 3,000 parts per million (ppm). A copy of the Operations Plan for Petroleum Contaminated Soils for Use as Alternate Daily Cover is included in Appendix 1 of this Plan.

Automobile shredder fluff is also accepted at this facility and used as a reagent for solidification operations and mixed with soil for daily cover. This is a Division of Waste Management permitted activity for the Facility as a Demonstration Project (February 5, 2004). A copy of the Division of Waste Management approval is included in Appendix 3 of this Plan.

The landfill owner or operator shall notify the Division of Waste Management within 24 hours of attempted disposal of any waste the landfill is not permitted to receive, including waste from beyond the approved service area. No hazardous, liquid or infectious waste shall be accepted at the facility for disposal. Waste prohibited for disposal include those hazardous wastes defined in 15A NCAC 13A (including hazardous waste from conditionally exempt small quantity generators), polychlorinated biphenyls as defined in 40 CFR 761, septic waste, waste oil or any waste that is determined to contain "free liquids" as defined by EPA Method 9095 (Paint Filter Liquids Test), S.W. 846 except as noted below.

Bulk or non-containerized liquid waste shall not be disposed of in the landfill unless the waste is a household waste other than septic waste or waste oil or the waste is leachate or gas condensate from the landfill facility. Containers holding liquid waste may not be disposed of in the landfill unless the container is a small container similar in size to that normally found in household waste, the container is designed to hold liquids for use other than storage or the waste is a household waste.

Management and disposal of asbestos shall be in accordance with 40 CFR 61. Asbestos shall be disposed of at the landfill at the bottom of the working face, separate from other waste, and immediately covered with soil.

Non-regulated medical waste may be disposed of within general solid waste disposal guidelines. All sharps that are either broken or intact shall be placed in a sealed, puncture proof container prior to disposal.

Spoiled foods, animal carcasses, abattoir waste, hatchery waste and other animal waste delivered to the disposal site shall be covered with soil immediately.

Wastewater treatment plant sludges may be disposed with general solid waste upon passing a Paint Filter Test (EPA Method 9095) and tested with a Toxicity Characteristic Leaching Procedure.

Barrels and drums shall not be disposed of unless they are verified to be empty and perforated sufficiently to ensure that no free liquids or hazardous waste is included within. This does not include household waste in small containers of original packaging.

BFI maintains a waste screening program at the facility for detection and prevention of unauthorized waste (hazardous, free liquids) for disposal. This program consists of performing random inspections of incoming waste. These inspections are performed on a daily basis for the various haulers entering the facility. A designated screening inspector shall perform the random inspection near the working face of the landfill within the containment limits.

The load chosen for inspection shall be directed to unload at a relatively flat area near the working face. The screening inspector shall sort through the unloaded waste using a loader, backhoe or similar available equipment to spread the load in a thin lift across the designated inspection area. Hand raking and shoveling may be necessary in order to spread the load sufficiently. Once the waste is spread thin enough to observe the entire load, the inspector shall record the contents of the load and complete the "Detailed Screening Report and Waste Screening Checklist for recordation.

If free liquid or hazardous wastes are not observed, the waste will be disposed of at the nearby working face following inspection. If hazardous waste is identified, the inspector shall immediately notify the site manager and the BFI hazardous materials emergency response team shall be notified. If non-hazardous liquid waste is observed, it shall be contained within the inspection area and either solidified using absorbent or containerized. The solidified or containerized waste shall be disposed of at an appropriate facility. If hazardous waste is encountered, the hazardous materials response team shall determine appropriate handling, containerizing, transporting and disposal at an approved facility for hazardous waste.

Records of inspections shall be kept in a separate screening or inspections file and maintained at the facility at all times. Sample forms for performing and documentation of inspections are attached with this Facility Plan. Facility personnel performing the inspections shall be adequately trained for identification of hazardous and liquid waste through programs offered by the Solid Waste Association of North America (SWANA) or North Carolina Department of Environment and Natural Resources (NCDENR).

The facility operator shall notify the Division of Waste Management within within 24 hours of attempting to dispose of waste products not approved for disposal at the facility. No hazardous, liquid or infectious waste shall be accepted and disposed of in the landfill.

A copy of the Waste Screening Form is included in Appendix 5 of this plan for reference.

1.6 Facility Personnel Training

Personnel at the CMS Landfill V Facility shall be trained to perform their position related tasks affectively. Individuals shall be trained in the following categories dependent upon their job description:

- Operation and Maintenance of the Leachate Surface Impoundment and Pretreatment Facility
- Leachate flow volumes, sampling and recordation
- Operation and Maintenance of the Scales
- Recordation of Waste Loading (Qualitative and Quantitative)
- Identification of Hazardous Waste
- Identification of Liquid Waste
- File Management and Record Keeping
- Control of Accidental Fires

The facility and operations managers shall be familiar with all aspects of training for landfill operations and maintenance.

1.7 Inspection Procedures

The CMS Landfill V Facility conducts daily random inspections for commercial waste haulers. The inspection procedure is carried out as follows:

- Selecting a commercial hauler based on a random number or pre-determined date and time for inspection
- Directing the hauler to the specified inspection location at the landfill
- Unloading of the waste in the inspection area
- Visual inspection of the load for hazardous, liquid or other non-permitted waste
- Flagging or segregating suspect materials
- Determination if load is acceptable for disposal
- Acceptance or rejection of the load
- Recordation of Inspection

This waste screening process is described in detail in Section 1.5 of this Plan. A sample Waste Screening Form is included in Appendix 5 for reference.

1.8 Record Keeping

The CMS Landfill V Facility maintains an on-site operating record in accordance with the NCDENR- Division of Waste Management Rule .1626 that includes the following:

- Waste inspection records
- Waste determination records
- Personnel Training records

- Waste screening program
- Waste amounts received along with source
- Methane gas monitoring results
- Methane gas remediation plans (if required)
- Groundwater Monitoring
 - Approved Groundwater Monitoring Plan
 - Groundwater monitoring analytical Results
 - Notice of Statistically Significant changes in constituents (if required)
 - Report of Explanation for change in Statistically Significant changes if change is not due to the Landfill Facility
 - Notice of Appendix II Constituents detected (if required)
 - Report of each sampling event
 - Permit modification to document selection of corrective action (if required)
 - Report justifying alternative corrective measures (if required)
 - Report documenting completion of corrective measures (if required)
- Closure and Post-Closure Monitoring Plan and Results
- Closure Cost Estimate and Financial Assurance Documentation
- Asbestos Disposal Recordation in accordance with 40 CFR 61
- Operations Plan
- Leachate Management Plan

Files containing the previously listed items shall be kept in the operating record for the active life of the landfill and the post-closure care period. All information contained in the operating record must be furnished to the Division of Waste Management upon request or made available for inspection. Additional records to be maintained on-site for the Facility include:

- Solid Waste Facility Permits
- EPA Generator I.D. / Permits
- NPDES Stormwater Permit, Monitoring and Sampling
- Industrial User Pretreatment Discharge Permit
- Erosion & Sedimentation Control Plan, Permit and Inspections
- Division of Waste Management Inspections
- Applications for Permits and Operations Plans
- SPCC Plan and Updates
- Special Waste Acceptance Records

2.0 FACILITY OPERATIONS AND MAINTENANCE

This Section of the Operations Plan addresses the operational and maintenance requirements that are not specific to a specific landfill Phase or Cell. These requirements apply to the operations within the Facility boundary.

2.1 Erosion and Sedimentation Control

Each phase of landfill development requiring the disturbance or clearing of natural lands requires an erosion and sedimentation control plan designed for the 25-year, 24-hour storm event. The erosion and sedimentation control governing authority for CMS landfill V is Cabarrus County. The erosion and sedimentation control plan serves to stabilize disturbed areas and contain runoff sediments on-site.

For the development of the Phase 2 Expansion and Phase 3, the erosion and sedimentation control plan will utilize two existing sediment basins, SB-1 and SB-2, and require construction of six new sediment basins, SB-3A, 3B, 4, 5, 6 and 7. Stabilized channels will convey stormwater runoff to these sediment basins to contain runoff sediments on-site.

Following each significant rainfall event, all sediment and erosion control devices should be inspected for integrity. All devices should be inspected for erosion damage and repaired immediately. Once the sediment levels in the basins have reached one third of the basin storage capacity, the accumulated sediments will be removed from the basin and may be applied as daily cover in the landfill. Any trash or debris found in the basins will be removed and transported to the landfill for disposal.

The stabilized channels shall be inspected after each significant rainfall event for any erosion damage or substantial sediment accumulation. The channels shall be repaired to function as shown on the approved erosion and sedimentation control plan.

Embankment slopes shall be periodically inspected for erosion damage. Provisions for stabilized vegetation on embankment slopes shall be made within 30 working days or 120 calendar days following completion of any phase of landfill development. If vegetation growth is not adequate after the first growing season, apply additional fertilizer prior to the next growing season. Vegetation should be mowed at least twice a year. If erosion damage occurs within a stabilized area, the damaged area shall be filled with soil to original grade, seeded and mulched. If needed, a manufactured erosion mat shall be installed to temporarily stabilize the area until vegetation is stabilized.

The landfill shall not cause a discharge of pollutants into waters of the United States, including wetlands, that violates any requirement of the Clean Water Act, including but not limited to, NPDES requirements pursuant to Section 402. The landfill shall not cause a discharge of a non-point source pollutant to the waters of the United States, including wetlands, that violates any requirement of a local government or state-wide water quality

management plan that has been approved in accordance with Sections 208 or 319 of the Clean Water Act.

2.2 Access and Safety Requirements

The CMS Landfill V facility maintains controlled access with a chain-link fence surrounding the site starting at the Rocky River on the northwest corner, traversing east and then south along the inside of the landscaped berm along Pitts School Road until reaching the Rocky River in the southeast portion of the site. The Rocky River serves as a natural security boundary along the southern and eastern sides of the site. A locking gate is located at the entrance to the site near the scalehouse and a second locking gate is located at the northeast corner of the site for emergency access. Landfill personnel are located at the scales near the entrance to the facility between all hours of operation and public access to assure compliance with Facility operations.

Access roads into and around the site consist of all weather construction and are maintained in good condition. Speed limits are posted along access roads to promote driver safety.

Personnel and public entering the landfill are required to wear hard hats and high visibility safety vests in and around the active areas.

The Facility prohibits the removal of solid waste from the landfill without the approval of the facility or operations manager. Solid waste will not be removed from the working face.

With the exception of asbestos contained in fiber drums, barrels and drums shall not be disposed of in the landfill unless they are verified as empty and perforated sufficiently so as not to contain hazardous or liquid waste.

2.3 Dust, Litter, Odors and Vectors

Potential nuisances involved with landfill operations include dust, odor and litter. Dust is kept to a minimum with utilizing the two on-site water trucks to wet the access and haul roads on-site. Wind blown dust may also be minimized by seeding areas that will remain inactive to promote vegetation. Odor is controlled with the application of daily cover over disposed waste and the on-site gas recovery facility. If odor continues to be a concern, masking agents may be used or cover applied more vigorously.

Litter is controlled with the use of "litter fences" that may be moved around the working face of the landfill based on the prevailing wind direction. Constant policing and "good housekeeping" practices are carried out by landfill personnel to reduce potential litter.

Potential vectors that may be drawn to landfilling operations are primarily rodents, insects and birds that are categorized as "scavengers". To deter the presence of these vectors, waste is covered daily with soil or alternative cover to limit the accessibility of a

food source. Standing water shall not be allowed in the landfill disposal footprint that may promote insect population.

2.4 Landfill Signage

Facility signs are posted along the access road leading to the scalehouse. The existing signs display information for:

- Facility Name and Owner
- Hours of Operation
- Permit Number
- Emergency Contact
- No hazardous or non-permitted waste may be accepted without written approval from the North Carolina Division of Waste Management
- Additional Facility Specific Information

Directional, informational and traffic signs are posted along access roads to efficiently direct haulers and visitors to the working face of the landfill or other appropriate facility at a safe speed.

2.5 Fire Control

Open burning of solid waste is prohibited at CMS landfill V. Heavy equipment and readily available soil are in place to control accidental small fires along with two on-site water trucks. Any fire that occurs at the Landfill shall be reported to the Division of Waste Management within 24 hours of occurrence and the Landfill operations or facility manager shall submit a written notice of fire to the Division within 15 days.

In the event a large fire occurs at the landfill facility, the City of Concord Fire Department shall be contacted by dialing 911. "Hot" loads that are delivered to the landfill shall be directed away from the landfill area, dumped, and the fire department notified. The load shall be sprayed with water until extinguished and combustion is not a threat. The load will then be transported to the landfill for disposal.

2.6 Explosive Gases Control

A methane gas monitoring program is in place at the CMS Landfill V Facility. This program was implemented in accordance with the North Carolina Division of Waste Management Rule .1626 (4). The program consists of quarterly air quality sampling within facility structures and within permanent methane gas monitoring wells. The purpose of the program is to protect the health and safety of personnel and public at the facility and detect methane gas migration off-site. The following describes the monitoring program, devices implemented, sampling frequency, sampling procedures, recordation and reporting.

2.6.1 Permanent Methane Monitoring Wells

Permanent methane monitoring wells are installed between the landfill footprint and the facility boundary and structures to detect the horizontal migration of methane gases from the landfill. The methane monitoring wells are placed approximately 800 feet apart along the perimeter of the landfill and at varying distances from the landfill depending on location of facility boundary and nearby structures. A copy of the Methane Monitoring Well Location Plan is included in Appendix 7 of this plan. The plan shows locations of existing and proposed wells through proposed Cell 2H. Additional locations will be determined following design of Phases 3, 4 and 5.

2.6.2 Methane Monitoring Well Construction

The methane monitoring wells extend to depths that are a minimum of five (5) feet below the depth of the liner system of the nearest landfill Cell. Encountering groundwater should be avoided if possible while establishing well depths. The wells will be constructed of Schedule 40 PVC casing attached to a 10-foot section of 0.01-inch machine slotted PVC screen. The screen section shall be surrounded with No. 78M stone (Pea Gravel) to fill the eight-inch annulus of the borehole. The Pea Gravel shall extend a minimum of two feet above the machine slotted screen. A minimum 2-foot thick bentonite seal shall be installed above the Pea Gravel section. The bentonite seal shall be hydrated prior to filling the remaining annulus space with Portland cement to the ground surface. A 4-inch X 4-inch locking protective steel casing will be installed over the PVC casing stick-up. A minimum 2-foot X 2-foot concrete pad will be installed around the protective casing sloped to drain rainwater away from the well. The wells shall be installed by a North Carolina Certified Well Driller. A schematic of methane monitoring well construction is included in Appendix 7 of this Plan for reference.

2.6.3 Methane Monitoring Procedures and Frequency

The methane monitoring program shall be performed by CMS Landfill V personnel properly trained to use an explosimeter (gas meter). Methane monitoring wells and facility structures will be monitored quarterly for concentrations of methane gas using an explosimeter. The following testing procedures shall be used each quarter:

Methane Monitoring Well Testing Procedure

1. Calibrate the explosimeter in accordance with the manufacturer's recommendations for methane calibration. Calibration shall be performed in area known to be free of methane gas.
2. Aspirate to purge the explosimeter 4 to 5 times prior to each reading in an area known to be free of methane gas.
3. Open the cover of the methane monitoring well
4. Insert the explosimeter into the PVC casing approximately 1 to 2 feet below the top of the PVC casing.

5. Aspirate the explosimeter 5 to 7 times immediately before gas is evacuated from the well.
6. Record the percent methane (volume by air) and percent of lower explosive limit (LEL).

Methane Monitoring for Facility Structures

1. Calibrate the explosimeter in accordance with the manufacturer's recommendations for methane calibration. Calibration shall be performed in area known to be free of methane gas.
2. Aspirate to purge the explosimeter 4 to 5 times prior to each reading in an area known to be free of methane gas.
3. For Structures Built Upon Concrete Slabs: Place the explosimeter tube near penetrations through interior walls such as floor drains, electrical outlets, switches or any cracks in concrete slab or around the base of the walls if none of the previously mentioned items are present. Aspirate the explosimeter 5 to 7 times at each location. Record the percent methane (volume by air) and percent of lower explosive limit (LEL). Purge the explosimeter prior to performing another reading.
4. For Structures with a Crawl Space: Perform testing as described in item 3 above with the addition of performing testing at the opening and vents of the crawl space. Insert the explosimeter 2 to 3 feet into the crawl space area and aspirate 5 to 7 times at each location. Record the percent methane (volume by air) and percent of lower explosive limit (LEL). Purge the explosimeter prior to performing another reading.

2.6.4 Reporting Requirements and Response Plan

The results of the quarterly methane monitoring shall be recorded for each well and facility structure and placed in the operating record. Regulations require that explosive gases be controlled such that concentrations of gases are less than 25 percent of the Lower Explosive Limit (LEL) for methane in structures and below the LEL at the facility boundary. If monitoring results exceed either of these requirements, the following procedures shall be followed:

1. Immediately report methane levels to the Landfill Manager
2. Evacuate and restrict access to facility structures or exterior areas that have recorded the non-compliance methane levels.
3. Prohibit use of equipment and materials that may cause sparks or an open flame.
4. Turn off the main electrical supply switch or breaker at the structure containing high methane levels.
5. The Landfill Manager shall direct qualified and properly equipped response teams (or subcontracted response) to locate the methane source for capping or isolation.

6. Do not allow re-entry or normal operations until the methane levels are acceptable.

Within seven days of detecting non-compliance methane levels, the recorded methane gas levels shall be placed in the operating record along with the actions taken to protect on-site personnel and public health. Within 60 days of detecting non-compliance methane levels, a remediation plan for the methane gas release shall be implemented to avoid reoccurrence. This plan shall also be placed in the operating record and the Division of Waste Management shall be notified of the implementation of remediation plan. The Division may grant an extension of time if warranted.

2.7 Gas to Energy Facility

A methane gas collection / gas to energy facility is located on-site and operated by Gas Recovery Systems, Inc. (GRS). This facility operates by creating a vacuum through a network of collection pipes and gas extraction wells throughout areas of the landfill that have achieved final waste grades or will not receive waste for a substantial time period. This gas recovery system reduces the concentration and quantity of gases within the landfill to further deter the migration of gases off-site. The collected gases are used as fuels to operate an electricity-generating turbine to supply power to the City of Concord.

The installation of gas extraction wells and piping network is an on-going operation as areas of the landfill achieve final grade. A copy of the LFG (landfill gas) Master Plan is included in Appendix 8. This plan is a compilation of as-built drawings created following each phase of gas extraction construction through June 12, 2003. The limits of gas extraction shall expand as final grades are achieved for Phase 2 Expansion, Phase 3, Phase 4 and Phase 5.

2.8 Leachate Management System

A leachate collection system will be constructed above the composite liner system in each Cell. The collection system for each Cell is connected to a main transmission pipeline consisting of manholes and lift stations that transport leachate from the landfill to the on-site leachate storage lagoon. A leachate pretreatment facility is located adjacent to the lagoon to treat leachate to acceptable levels in accordance with the facilities industrial user pretreatment discharge permit. Leachate shall be sampled semi-annually concurrently with groundwater sampling and analyzed for Appendix I constituents, pH, BOD, COD, TDS, phosphate nitrate and sulfate. This sampling and analysis is in addition to the requirements of the industrial user pretreatment discharge permit located in the Facility Plan.

2.8.1 Leachate Management System Design and Maintenance

The leachate collection system within landfill cells will consist of a geocomposite drainage media that rests on a 60-mil high density polyethylene liner to collect and transport leachate along the Cell floor. A network of leachate collection pipes

surrounded by #57 washed stone will be placed at various locations along the Cell floor to intersect flow of leachate along the top of protective cover and the geocomposite. The leachate collection pipes will tie-in to a leachate header line that will transport the collected leachate to the sump area for each Cell. At each sump area, a stainless steel pump will rest on the Cell floor housed in a high density polyethylene side-wall riser pipe to remove leachate from within the Cell and transport into the leachate transmission system. A high density polyethylene transmission pipe along with a series of manholes and lift stations shall transport leachate from each Cell to the on-site Pre-treatment Facility Storage Lagoon.

The on-site leachate storage lagoon has served the Facility since operations began in the early 1990's. The lagoon has a total storage capacity of approximately 2.9 million gallons or 390,000 cubic feet. The storage lagoon was constructed with a composite liner system and maintains a grout filled geosynthetic (fabric form) above the liner section to protect the integrity of the liner. Two floating aerators are positioned at the ends of the lagoon to introduce oxygen into the leachate and begin the treatment process by reducing BOD and COD levels.

The Leachate Pre-Treatment Facility is located adjacent to the storage lagoon. The pre-treatment facility pumps water from the lagoon through a series of automatic monitoring systems to continually monitor discharge water quality. Based on historical data at the Facility, the aeration process occurring in the leachate storage lagoon has been sufficient treatment of leachate to meet the discharge requirements of the Rocky River Waste Water Plant. Additional treatment available in the Pre-Treatment Facility includes:

- 1,300 gallon pH adjustment Tank
- 2,035 gallon flocculation tank
- 1,034 gallon clarifier
- 1,900 gallon surge tank

Following necessary treatment, the water is discharged to the Rocky River Waste Water Plant operated by the Water & Sewer Authority of Cabarrus County. A copy of the "Industrial User Pretreatment Permit No. 1024" is included in Appendix 4 of the Facility Plan.

Periodic maintenance of the system requires inspection of all the associated pumps, valves, fittings and control panels to ensure that the leachate management system components are in "good working condition". Manholes and lift stations should be inspected for accumulated sediment and cleaned as warranted. If required, the leachate transmission piping may be flushed with water to remove accumulated sediments. The same is true for the leachate collection system within individual landfill Cells. The systems contain cleanouts at the ends of header lines that may be "back-flushed" with water to maintain the efficiency of the system.

Any components that are found to not be in "good working condition" shall be replaced or repaired immediately.

2.8.2 Sampling, Record Keeping & Reporting

A copy of the "Industrial User Pretreatment Permit No. 1024" issued to BFI Waste Systems of North America, Inc. by the Water & Sewer Authority of Cabarrus County is included in Appendix 4 of the Facility Plan. The effluent limitations are listed on page 5 of the permit and requires monthly sampling and reporting (semi-annually for priority pollutants). The permit allows discharge from the pretreatment facility at an average rate of 150,000 gallons per day (0.15 MGD).

Additionally, leachate shall be sampled semi-annually concurrently with groundwater sampling and analyzed for Appendix I constituents, pH, BOD, COD, TDS, phosphate nitrate and sulfate. Documentation of sampling and corresponding analytical results shall be placed in the operating record.

The facility will also record the amounts of leachate generated based on levels recorded in the storage lagoon and also record the amounts of pretreated leachate discharged to the Rocky River Waste Water Treatment Plant. Documentation of this recordation shall be placed in the operations record.



**POST-COLLECTION EQUIPMENT
MAINTENANCE
USER GUIDE**

**Version 2.1
March 2010**

QUICK START

WHO SHOULD USE THIS GUIDE?

All local, Area, Region, and Corporate personnel associated with maintaining equipment and vehicles at company sites.

HOW DO I USE THIS GUIDE?

Refer to the chart below to determine which sections you should focus on in your study and use of this Guide.

Study those sections of the Guide thoroughly.

Use the process and tools exactly as outlined for maximum results.

Section	GM, Ops Manager	RHEMM	Mechanic	Other Management
Overview	✓	✓	✓	✓
Administration	✓	✓	✓	✓
Parts	✓	✓	✓	✓
Scheduled Service	✓	✓	✓	✓
Shop	✓	✓	✓	✓
Safety	✓	✓	✓	✓
Appendix	✓	✓	✓	✓

WHO DO I CONTACT FOR SUPPORT?

Before calling for help, check the Keyword Index and tools in the Appendix.

For assistance in using this Guide, following processes, or locating resources, contact your Regional Post-Collection Manager or your Regional Heavy Equipment Maintenance Manager (RHEMM).

REGIONAL HEAVY EQUIPMENT MAINTENANCE MANAGERS			CORPORATE CONTACT
Midwest	Mark A. Johnson	574-870-7057	Dave Hildreth Sr. Manager, Post-Collection Operations Support 817-233-2592
Eastern	Steve Kutchman	703-856-7256	
Western	William "Bertie" Stewart	925-209-6778	
Southern	Bill Baker	405-990-5711	

CONTENTS

Overview	1
Overview	1
Overview Standards Quick Reference.....	5
Administration	11
Research & Development and Equipment Modification.....	11
Equipment Maintenance Training.....	12
Equipment History File	13
Maintenance and Cost Tracking Software.....	14
Equipment Identification Numbers.....	15
Warranty Recovery/Core Charges	17
Equipment Transfer Condition.....	18
Part	19
OEM Parts	19
Cooling Systems	20
Compactor Wheel Cleaning	21
Off-Highway Tires	22
Scheduled Service	23
Daily Servicing	23
Scheduled Service Requirements	24
Oil Change and Lubrication Intervals.....	25
Oil Sampling.....	27
Filter Change Intervals for OEM Filters	29
Undercarriage Management.....	31
Equipment Washing.....	33
Shop	35
Landfill Shop and Repair Capabilities.....	35
Hoses & Storage.....	37
Shop Tools and Supplies	38
Fastener Sizes, Types, & Grades.....	40
Safety	41
Machine Service and Parking Brakes.....	41
Equipment Safety and Upkeep.....	42
Fire Suppression Systems	44
Appendix	45
Forms.....	45

OVERVIEW

OVERVIEW

WHY YOU NEED THIS USER GUIDE

At Republic Services, Inc., **a sound heavy equipment repair and maintenance program, and people who execute that program each day, drive business value.** In order to drive value, *we must have the cooperation and commitment of all maintenance personnel to execute the program standards.*

The Post-Collection Equipment Maintenance User Guide is practical tool to help guide daily and ongoing work to keep our heavy equipment on the job working to their capacity – while keeping customers and equipment operators safe at all times.

Many professionals in our company provided their expertise to make improvements to the contents of this guide. We owe them thanks. Our goal is to continuously improve our maintenance program so it can remain best in the industry.

We have proven that maintaining a fleet to the standards in this guide will maximize equipment availability, productivity, and safety. Thank you for living our equipment maintenance standards every day in your work for Republic Services.

You'll find this guide to be...

- ❖ **Easy to Use** – *Focused on key performance tasks, accurate to current knowledge and best practices, and complete with all relevant information.*
- ❖ **Easy to Understand** – *Clear and understandable at first glance, concrete with real-world language and examples.*
- ❖ **Easy to Find** – *Organized to locate specific items quickly, and visually effective in the use of formatting and graphics.*

WHAT THIS USER GUIDE INCLUDES

The **key components listed below** will help transfer information and processes to improve on-the-job performance:

- ◆ **“Quick-Start” section** to identify who should use the publication, and what parts are most important for each relevant job function.
- ◆ **Table of Contents**
- ◆ **Frequently Asked Questions** for a perspective on using the User Guide information
- ◆ **Major definitions** to understand the User Guide’s vocabulary
- ◆ **Topic content** that is logical, clear, accurate, and up to date
- ◆ **Easy-to-read formatting and direct writing**
- ◆ **Quickly-understood graphics** relating visually to important content
- ◆ **Specific, practical job aids** for applying knowledge/skills on the job
- ◆ **Other appendix items** that are useful references

RECEIPT & RESPONSIBILITY ACKNOWLEDGMENT

Please this page, sign and date below, fill out your information as requested, tear out this page from the guide, and give it to your supervisor for your files.

I acknowledge receipt of a copy of Republic Services' Post-Collection Equipment Maintenance User Guide. **I understand that I am responsible for making sure all of my maintenance work** performed on company vehicles and equipment at company facilities **complies with or exceeds the standards outlined in this guide**, as well as those required by local, state, and federal regulatory agencies, including OSHA and DOT.

I understand this version of this document updates and replaces all previous versions. **I agree to read this entire guide, abide by its directions and procedures**, and bring any questions or concerns about anything contained in this guide to the attention of my supervisor, the Regional Post-Collection Manager, or the Regional Heavy Equipment Maintenance Manager (RHEMM).

Employee's Signature

Date signed

Employee's Name (please print)

Region

Division

MAINTENANCE STANDARDS QUICK REFERENCE

Topic	Standard	Best Practices or Reference Materials
ADMINISTRATION		
Research, Development and Equipment Modification	Your RHEMM must review and approve any modifications to a piece of heavy equipment before implementation. <i>The research and development standard establishes the procedure to follow when testing new products and modifying equipment.</i>	BP page 11
Equipment Maintenance Training	All Post-Collection mechanics and PM personnel must attend maintenance-related training meetings at least once a month. Each session should be practical “how to” on relevant maintenance and safety topics. Each site with advice from its RHEMM should determine and maintain the proper number of mechanics to keep the site’s fleet in use. Recruit mechanics with base competencies and progressively train and develop them through a structured career development path. The RHEMM or an approved designee will thoroughly review each site’s maintenance program at least annually to assess the effectiveness of the maintenance program and its training programs.	BP page 12 The mechanic head-count calculator and the maintenance review scorecard are in the on-line reference guide.
Equipment History File	All units will have a machine maintenance history folder or Equipment History File. The VCR retention period at least 90 days. Keep all other items in the unit’s maintenance history folder for the life of the machine.	BP page 13
Maintenance and Cost Tracking Software	Fully comply with the Dossier computerized maintenance records program. Designate one person at your site to be responsible for data input and maintaining reporting requirements.	BP page 14 Dossier training is available on-line.
Equipment Identification (ID) Numbers	Number all equipment using Republic Services’ uniform off-highway unit alphanumeric system.	BP page 15
Warranty Recovery & Core Charges	Use Dossier to track all warranty claims. Site must initiate all claims tracking, and the RHEMM reviews annually all warranty claims. <i>Return the old core for credit with each part replacement that involves a core charge.</i>	BP page 17

Topic	Standard	Best Practices or Reference Materials
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SCHEDULED SERVICE

Daily Servicing (Pre-/Post-Operations Checks)	<p>Perform daily Pre- and Post-Operations checks on every piece of equipment used.</p>	<p>BP page 23 The approved form is available on-line.</p>
Scheduled Service Requirements	<p>Maintenance Service Frequency Standard:</p> <ol style="list-style-type: none"> 1. Machine operators conduct daily pre- and post-operations inspections. 2. Mechanics or trained designees inspect equipment every 50 hours or 30 days, whichever is first. 3. Mechanics perform inspections at 250, 500, 1000, 2000, and 6000 hours. <p><i>Use the SS forms in the Appendix or in the on-line reference guide.</i></p>	<p>BP page 24</p>
Oil Change and Lubrication Intervals	<p>Heavy Equipment Oil Change Intervals:</p> <ul style="list-style-type: none"> ◆ Engine – 250 hours ◆ Transmission – 1,000 hours ◆ Hydraulic Oils, Differentials, Finals – 2,000 hours ◆ Antifreeze – ELC 6,000 hours <p>Maintain a clean oil supply with an ISO count of 18/15. Equip all bulk supply tanks, lube trucks, lube trailers and 55 gallon oil drums with filters on the oil pumps and des-can air filters on all air breathers.</p> <p>Ensure that mechanics transfer only oil that is free of contamination from any of our clean bulk supplies that is added to the machine.</p> <p>Use only approved, labeled, closed oil jugs to add oils to a machine. Each oil supply will have a dedicated pump for transfer of oil from the bulk supply to the machine or the approved container.</p> <p><i>Use an NLGI 1 or 2 (depending on the ambient temperature) Moly grease 2 to 5 %.</i></p>	<p>BP page 25 Additional reference material is available in the on-line guide.</p>
Oil Sampling	<p>Sample oil in all compartments every 250 hours of scheduled service (<i>engine, transmission, hydraulic, final drives, and differentials</i>) and antifreeze at 2,000 hours.</p> <p><u>During warranty period</u>, the OEM's lab will perform all oil analysis. <u>After warranty period</u>, the OEM lab or an approved lab that can meet the criteria noted in the BP section will perform oil analysis.</p>	<p>BP page 27 Additional reference material is available in the on-line guide.</p>

Topic	Standard	Best Practices or Reference Materials
SHOP		
Landfill Shop and Repair Capabilities	Maintain a designated area for performing the necessary maintenance and repairs on company-owned heavy equipment. Base the size and attributes of the facility on (1) <i>number of machines on-site</i> , (2) <i>type and nature of repairs needed</i> , (3) <i>local climatic conditions</i> , and other relevant factors.	BP page 35
Hoses – Hose Storage	Use only OEM dealer hoses for all brake lines and high-pressure applications. You may use in-house hoses less than 3/4-inch diameter <u>only</u> when they are not for primary pump pressure or brake lines. <i>All locations using in-house hoses must receive training in construction and control of contamination.</i>	BP page 37 Additional reference material is available on-line.
Shop Tools and Supplies	Store all tools and supplies in a locked, secure location.	BP page 38 The required and recommended tools lists can be found on-line.
Fastener Sizes, Types and Grades	Purchase all internal component bolts from the OEM. <i>All other external bolts, nuts, and washers used on Post-Collection equipment must be Grade 8 quality.</i>	BP page 40

RANDOM WASTE INSPECTION FORMS

F. Random Inspection Program

The landfill is permitted as a municipal solid waste landfill and as such must not receive regulated hazardous or nuclear wastes. It is important that such wastes not enter the landfill because of the potential damage and liability these wastes could cause should they enter the environment.

Random inspection of vehicles will be conducted on a regular basis. The selection must be at a frequency of at least one vehicle per week. The frequency of random inspections may be increased at the General Manager's discretion. The personnel conducting the inspection will randomly select the load at the working face of the landfill and the inspection will be completed in a designated area near the working face. A random truck and time will be selected (e.g., the second load after 8:00 a.m.) on the day of inspections. In addition, any suspicious load shall be inspected.

Results of random inspections shall be recorded; report forms are included in the Appendix. One form shall be completed for each inspection. All reports and resulting correspondence are to be maintained in the Uwharrie Regional Landfill facility operating record for the life of the landfill and during the post-closure period. The presence of any regulated hazardous, liquid or regulated PCB wastes or otherwise prohibited wastes identified during random inspections shall be reported to the Section. Inspections shall include truck identification, driver's name, source of material(s) if possible, or route and what, if any, prohibited material(s) were included. If none were observed, or only normal quantities of household hazardous waste, this too should be logged.

Inspections will be carried out and supervised by landfill staff trained to identify and manage hazardous and liquid waste. Landfill operators responsible for screening waste are trained in waste screening.

The following action plan required by Rule .1626(1)(f)(iv) addresses identification, removal, storage, and final disposition of wastes, and details the procedure for conducting random waste inspections.

- Stop the selected vehicle prior to the working face of the landfill.
- Notify the driver of the inspection.
- Direct the vehicle to the inspection area. The inspection area may be either a permanently designated location or a temporary location adjacent to the working face.
- If possible, perform a visual observation of the waste prior to unloading. If unauthorized waste is observed, or suspected, the vehicle shall be prohibited from unloading, and shall be directed out of the facility.
- If no unauthorized waste is observed or suspected from the visual observation, or if a visual observation is not possible, the vehicle shall discharge the load at the inspection area. The driver shall remain at the inspection area while the inspection is performed, unless a safety concern requires evacuation of the area. Equipment shall spread and turn the waste to facilitate a visual observation of the load contents. If no unauthorized waste is identified, the waste shall be transferred to the working face for disposal.
- If unauthorized waste is identified in the load, and the unauthorized waste is not a regulated hazardous waste, a regulated medical waste, a regulated nuclear waste, or a waste which requires special handling, the waste shall be loaded back into the vehicle and removed from the facility.
- If acceptability of the waste can not be determined by visual observation, the waste can either be rejected and loaded back into the vehicle and removed from the facility, or samples of the waste can be taken to determine acceptability. Testing shall be selected based on the reason for the suspicion of unacceptability.

- Unauthorized wastes suspected of being a regulated hazardous waste, a regulated medical waste, or a regulated nuclear waste shall be managed in accordance with all applicable federal, state and local regulations. Republic Services of North Carolina will contact the proper authorities if any of the above prohibited wastes are received at the facility. This includes the Section, County Emergency Personnel and the local HAZMAT by calling 911. In addition, responsible parties will be notified of all rejected loads, if possible.

WASTE INSPECTION FORM

FACILITY: **UWHARRIE REGIONAL LF**

PERMIT NO. _____

LOCATION: _____

DATE: _____

INSPECTOR: _____

COMPANY: _____

Waste Name(s) & Address(es)

1. _____

2. _____

3. _____

4. _____

5. _____

Waste Hauler: _____

Address: _____

Driver's Name: _____

Waste Accepted

Waste Rejected

Waste Held

Notified: Waste Source

Hauling Management

Site Management

State

Federal

Loader Operator: _____

Personnel Conducting the Inspection: _____

Supervisor Conducting the Inspection: _____

SIGNATURE: _____

Witness: _____

SIGNATURE: _____

Driver: _____

SIGNATURE: _____

Other: _____

Company: _____ Title: _____

SIGNATURE: _____

DATE: _____ Time: _____ AM PM

ADDITIONAL COMMENTS: see page 2

INSPECTION CHECK LIST: (Check all that apply)

(If "YES", please explain in the space provided below)

FACILITY: UWHARRIE REGIONAL LF

PERMIT NO. _____

LOCATION: _____

DATE: _____

INSPECTOR: _____

COMPANY: _____

	YES	NO
1. Powder/Dusts	_____	_____
Identified: _____		
Unknown	_____	_____
2. Unacceptable Saturation	_____	_____
3. Odor/Fumes	_____	_____
Strong	_____	_____
Faint	_____	_____
Describe: _____		
4. Heat	_____	_____
Item: _____		
5. Battery	_____	_____
6. Oil	_____	_____
7. Biomedical	_____	_____
8. Radioactivity	_____	_____
9. Ashes/Residue	_____	_____
10. Sod/Soil	_____	_____
11. Asbestos (not properly contained)	_____	_____
12. PCB	_____	_____
13. Out of Area Waste	_____	_____

Explanation:

CONTAINER INVENTORY

FACILITY: UWHARRIE REGIONAL LF

PERMIT NO. _____

LOCATION: _____

DATE: _____

INSPECTOR: _____

COMPANY: _____

Container:

Drum Metal Cardboard Plastic Other

Other: _____

Contents:

Full Partially Full Empty

Crushed Punctured

Labeled Hazardous

Identified: _____

Additional Information:

Container:

Drum Metal Cardboard Plastic Other

Other: _____

Contents:

Full Partially Full Empty

Crushed Punctured

Labeled Hazardous

Identified: _____

Additional Information:

REFUSE/UNIDENTIFIED WASTE INSPECTION FORM

FACILITY: UWHARRIE REGIONAL LF

PERMIT NO. _____

LOCATION: _____

DATE: _____

INSPECTOR: _____

COMPANY: _____

REJECTABLE WASTE DESCRIPTION: _____

WASTE:

Rejected

Accepted

NOTIFIED:

Waste Source

Hauling Management

Site Management

State

Federal

REFUSED WASTE TRANSPORTED BY:

Hauler Address:

Destination:

ACCEPTED WASTE:

Contained area:

Secured by:

Lab to complete testing:

ADDITIONAL COMMENTS:

Summary of Financial Information for Republic Services, Inc.

Financial Capabilities

Republic Services is America's second largest non-hazardous solid waste services company and has the most experienced management team in the industry. Headquartered in Phoenix, AZ, Republic Services provides waste collection, transfer, recycling and disposal services to millions of residential, commercial and industrial customers. Republic's team of more than 35,000 dedicated employees is committed to delivering service that exceeds the customers' highest expectations.

The Company's 2008 Annual Report to Shareholders (Form 10-K) is submitted in response to the request for financial information. The Annual Report to Shareholders has been prepared in accordance with Securities and Exchange Commission requirements, with New York Stock Exchange Commission requirements, and in accordance with generally accepted accounting principles. Selected financial data can be found on pages 36 and 37 of the 2008 Annual Report.

The financial statements contained in the Annual Report were audited by Ernst & Young LLP (Independent Certified Public Accountants) – Phoenix, Arizona. Their reports, which are dated March 2, 2009, are on pages 77, 78 and 79 of the 2008 Annual Report.

Republic Services, Inc. is a publicly owned company whose shares are traded on the New York Stock Exchange (NYSE symbol: RSG).

Summary Financial Data
(in millions)

	2008	2007	2006	2005	2004
Revenue	\$3,685.1	\$3,176.2	\$3,070.6	\$2,863.9	\$2,708.1
Operating income	\$283.2	\$536.0	\$519.5	\$477.2	\$452.3
Net income	\$73.8	\$290.2	\$279.6	\$253.7	\$237.9
Total assets	\$19,912.4	\$4,467.8	\$4,429.4	\$4,550.5	\$4,464.6
Stockholder's equity	\$7,281.4	\$1,303.8	\$1,422.1	\$1,605.8	\$1,872.5

On December 31, 2008, Republic Services, Inc. reported total assets of \$19,921,400,000.00.

The financial prospects for Republic Services indicate long-term stability based on the Company's assets. Republic Services has 242 transfer stations, 213 landfills, 78 recycling facilities and 400 collection operations in 40 states and Puerto Rico. It is the Company's belief that it has the financial capabilities and sufficient working capital or access to sufficient working capital to finance and perform the required work.

Credit Information

Republic Services, Inc. of Phoenix, Arizona, is a leading provider of non-hazardous solid waste collection, transfer and disposal services.

Available Credit Lines

Total All Banks (as of 2-15-09): \$ 2.75 billion

Bank References

All inquires for bank references must be made by fax.

Bank of America
Confirmation Department
Reference: Republic Services Inc.
Tax ID: 65-0716904
Fax: 803-765-4882

J P Morgan Chase
Confirmation Department
Reference: AWIN Management
Tax ID: 76-0353318
Fax: 225-332-4342

Credit References

Heil Environmental Industries Ltd.
5751 Cornelison Rd

Chattanooga, TN 37411
Contact: Mr. Scottie Flerl
Telephone: 423-648-5255

Fax: 423-855-3469

(Nextran Truck Center)

Contact: Mr. John Lajza

Telephone: 386-774-5198

Fax: 386-774-5198

Marathon Equipment Co.

P.O. Box 1798/Highway 9 South

Vernon, AL 35592

Contact: Mr. Gordon Shaw

Telephone: 205-695-9105 ext.

1110

Fax: 205-695-8718

FleetPride

P.O. Box 9156

Corpus Christi, TX 78469

Contact: Mr. Steven

Stockseth

(Please fax requests)

Telephone: 866-221-2484 ext.

126

Fax: 361-883-3323

Michelin North America, Inc.

P.O. Box 19001

Greenville, SC 29602

Contact: Mr. Tom Davitt

Telephone: 913-645-3778

Fax: 864-458-5119

Wastequip

25800 Science Park Drive

Suite 140

Beachwood, OH 44122

Contact: Ms. Paige Farinacci

(Please e-mail requests)

Telephone: 216-292-2554

E-mail:

paige@wastequip.com

Mack Truck Sales and Service

Public Debt Rating

Rating Agency	Rating
Moody's	Baa3
Standard & Poor's	BBB

Republic Services, Inc. carries an "investment grade" credit rating.

On June 23, 2008, Moody's Investment Services stated "The company's stated commitment to improve cash flow and to reduce debt supports an expectation of improving credit metrics."

On June 26, 2008, Standard and Poor's stated "We believe Republic would adhere to its long standing investment-grade financial policies, prioritizing debt reduction so as to improve the financial profile of the combined entity."

LEGAL PROCEEDINGS

We are and will continue to be involved in various administrative and legal proceedings in the ordinary course of business. We do not believe that any of these matters will, either individually or in the aggregate, have a material adverse effect on our financial position, results of operations, cash flows or prospects.

We are involved in routine judicial and administrative proceedings that arise in the ordinary course of business and that relate to, among other things, personal injury or property damage claims, employment matters and commercial and contractual disputes. We are subject to federal, state and local environmental laws and regulations. Due to the nature of our business, we are also often routinely a party to judicial or administrative proceedings involving governmental authorities and other interested parties related to environmental regulations or liabilities. From time to time, we may also be subject to actions brought by citizens' groups, adjacent

landowners or others in connection with the permitting and licensing of our landfills or transfer stations, or alleging personal injury, environmental damage, or violations of the permits and licenses pursuant to which we operate.

Although the ultimate outcome of any legal matter cannot be predicted with certainty, we do not believe that the outcome of our pending legal and administrative proceedings will have a material adverse impact on our consolidated cash flows, financial position or results of operations.

Bid Bond

KNOW ALL MEN BY THESE PRESENTS that we, Republic Services of North Carolina, LLC 1220 Commerce St. SW Suite A, Conover NC 28613, the Principal, and, Ohio Indemnity Company, 250 East Broad Street, 7th Floor, Columbus, OH 43215, the Surety, are hereby bound unto, Haywood County, North Carolina the Obligee, in the penal sum of Five Percent of Bid Amount ---- (\$5%) for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, by these presents.

WHEREAS, the Principal is herewith submitting a bid or proposal for Haywood County Landfill Operations.

NOW, THEREFORE, the condition of this obligation is that if the Principal shall be awarded the contract and the Obligee shall so notify the Surety, and if within the period specified in the contract, or if no period be specified, within twenty (20) days after the Principal's receipt of notice of award, the Principal enters into a contract and gives bond for the faithful performance of the contract, then this obligation shall be null and void; otherwise, the Principal and the Surety will pay to the Obligee the difference between the Principal's bid and the next lowest bid; or in the event the Obligee does not award the contract and resubmit the project for bidding, the Principal and the Surety will pay the Obligee an amount equal to the costs of the resubmission including the printing of new contract documents, and advertising, printing, and mailing notices to prospective bidders; but in no event shall the liability hereunder exceed the penal sum hereof; no shall the Surety be obligated to give bond for performance.

If the Obligee makes no award within ninety (90) days of the execution date hereof, then this bond shall be null and void unless extended by written consent of Surety.

No liability of the Surety shall arise hereunder unless and until the Obligee delivers written notice of a claim to the Surety within fifteen (15) days after the alleged breach giving rise to such claim; and no suit under this bond by or for the benefit of the Obligee may be instituted sooner than thirty (30) days or later than ninety (90) days after the Surety receives such notice.

Signed, sealed and executed this 8th day of October 2010.

Principal

Ohio Indemnity Company
Surety

By: Sharonne Z. Puckett
Title

By: Scott
Attorney-In-Fact

Witness: Jacqueline Hampton

Witness: Jacqueline Hampton

OHIO INDEMNITY COMPANY
COLUMBUS, OHIO
POWER OF ATTORNEY

POWER NO. 400077

KNOW ALL MEN BY THESE PRESENTS, that Ohio Indemnity Company, a corporation organized and existing under the laws of the State of Ohio with its principal office at 250 East Broad Street, 7th Floor, Columbus Ohio 43215, by and through the undersigned, its President, does hereby nominate, constitute and appoint:

Johanne Puckett and Sarabeth Scott

as its true and lawful Attorneys-in-Fact to make, execute, attest, seal, acknowledge and deliver for and on its behalf, as Surety, and as its act and deed, where required, any and all bonds, undertakings, recognizances and written obligations in the nature thereof, PROVIDED, however, that the obligation of the Company under this Power of Attorney shall not exceed Four Million Dollars (\$4,000,000).

IN WITNESS WHEREOF, the Ohio Indemnity Company has caused its corporate seal to be affixed hereunto, and these presents to be signed by its duly authorized officers this 21st day of April, 2010.



OHIO INDEMNITY COMPANY

BY: *John S. Sokol*
John S. Sokol, President

BY: *Stephen J. Toth*
Stephen J. Toth, Vice President

Notary Public)
State of Ohio)

SS:

On this 21st day of April, 2010, before the subscriber, a Notary for the State of Ohio, duly commissioned and qualified, personally came John S. Sokol and Stephen J. Toth of the Ohio Indemnity Company, to me personally known to be the individuals and officers described herein, and who executed the preceding instrument and acknowledged the execution of the same and being by me duly sworn, deposed and said that they are the officers of said Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of said Company, and the said Corporate Seal and signatures as officers were duly affixed and subscribed to the said instrument by the authority and direction of said Corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at Columbus, Ohio, the day and year above written.



OFFICIAL SEAL
SHERRY E. BIXLER
NOTARY PUBLIC, STATE OF OHIO
RECORDED IN PICKAWAY COUNTY
MY COMMISSION EXPIRES
01/06/2015

BY: *Sherry E. Bixler*
Sherry E. Bixler, Notary Public
My Commission Expires 01/06/2015

State of Ohio)

SS:

I, the undersigned, Secretary of the Ohio Indemnity Company, a stock corporation of the State of Ohio, DO HEREBY CERTIFY that the foregoing Power of Attorney remains in full force.

Signed and sealed in Columbus, Ohio this 21st day of October 2010



BY: *Matthew C. Nolan*
Matthew C. Nolan, Secretary

Any reproduction or facsimile of this form is void and invalid.

**WELLS
FARGO**

Wells Fargo
Insurance Services USA, Inc.
15 South Main Street, 3rd FL (29601)
Post Office Box 3478
Greenville, SC 29602

Tel: 864 233 9626
Toll Free: 800 338 7154
wellsfargo.com

October 8 2010

**Haywood County
215 North Main Street
Waynesville, NC 28786**

Re: Republic Services of North Carolina, LLC


Gentlemen:

We are writing to you at the request of Republic Services of North Carolina, LLC. This principal has or is about to submit a proposal for Haywood County Landfill Operations.

If a contract for this work is awarded to Republic Services of North Carolina, LLC, the Ohio Indemnity Company, a surety licensed to conduct business in North Carolina, has agreed to act as surety on the bond(s) as specified in the bid proposal.

Please let us know if you need anything further in this regard.

Sincerely,


**Sarabeth Scott
Attorney-In-Fact for
Ohio indemnity Company**

**Sarabeth Scott, AVP/Bond Account Executive
Wells Fargo Insurance Services
15 South Main Street Third Floor
Greenville, SC 29601
864-527-2706
sarabeth.scott@wellsfargo.com**

Together we'll go far



Performance Bond

Bond No:

KNOW ALL MEN BY THESE PRESENTS, that we _____, the Principal, and Ohio Indemnity Company, 250 East Broad Street, 7th Floor, Columbus, OH 43215, the Surety, are held and firmly bound unto the _____, as Obligee, in the penal sum of _____ and 00/100 Dollars (\$ _____), for the payment of which we bind ourselves, our heirs, administrators, executors, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has entered into a certain written Contract for the _____ day of _____, with the above mentioned Obligee, dated the _____, which contract is hereby incorporated herein as if fully rewritten:

NOW, THEREFORE, the condition of the above obligation is such that if the Principal shall promptly and faithfully perform this Contract, then this obligation shall be null and void; subject, however, to the following conditions:

1. This bond is for the term beginning _____, and ending _____.
2. If there is no breach or default on the part of the Obligee, then the Surety's performance obligation under the bond shall arise after:
 - a. The Obligee has notified the Principal and the Surety in writing at their respective addresses of the alleged breach, and has requested and attempted to arrange a conference with the Principal and the Surety to be held not later than fifteen (15) days after receipt of such notice to discuss methods of performing the Contract; and has made available during notice period all books, records, and accounts relevant to the Contract which may be requested by the Principal or Surety. If the Obligee, Principal and Surety agree, the Principal shall be allowed a reasonable time to perform the Contract; but such an agreement shall not waive the Obligee's right, if any subsequently to declare a Principal default;
 - b. The Obligee has declared the Principal in default and formally terminated the Principal's right to complete the Contract, provided, however, that such default shall not be declared earlier than twenty (20) days after the Principal and the Surety have received the notice as provided in "a" above; and
 - c. The Obligee has agreed to pay the balance of the Contract price to the Surety in accordance with the terms of the Contract or to the such contractor as may be tendered by the Surety to the Obligee.
3. No claim, action, suit or proceeding, except as hereinafter set forth, shall be had or maintained against the Surety of this instrument unless same be brought or instituted and process served upon the Surety within six months after the expiration of the bond. The parties hereto expressly acknowledge and agree that no liquidated damages shall be claimed, due or payable by Surety pursuant to this Bond.
4. The bond may be extended for additional terms at the option of the Surety, by Continuation Certificate executed by the Surety.
5. Neither non-renewal by the Surety, nor failure, nor inability of the Principal to file a replacement bond shall constitute loss to the Obligee recoverable under this bond.
6. In no event shall the liability of the Surety hereunder exceed the penal sum hereof.

Signed, sealed and executed this _____ day of _____.

Principal

Ohio Indemnity Company
Surety

By: _____
Title

By: _____

(Corporate Seal)

(Corporate Seal)

Witness: _____

Witness: _____

DRAFT

OHIO INDEMNITY COMPANY

**COLUMBUS, OHIO
POWER OF ATTORNEY**

DOCUMENT NO. C1047

POWER NO. _____

KNOW ALL MEN BY THESE PRESENTS, that Ohio Indemnity Company, a corporation organized and existing under the laws of the State of Ohio with its principal office at 250 East Broad Street, 7th Floor, Columbus Ohio 43215, by and through the undersigned, its President, does hereby nominate, constitute and appoint:

Johanne Puckett and Sarabeth Scott

as its true and lawful Attorneys-in-Fact to make, execute, attest, seal, acknowledge and deliver for and on its behalf, as Surety, and as its act and deed, where required, any and all bonds, undertakings, recognizances and written obligations in the nature thereof, PROVIDED, however, that the obligation of the Company under this Power of Attorney shall not exceed Four Million Dollars (\$4,000,000).

IN WITNESS WHEREOF, the Ohio Indemnity Company has caused its corporate seal to be affixed hereunto, and these presents to be signed by its duly authorized officers this 21st day of April, 2010.

OHIO INDEMNITY COMPANY



BY: John S. Sokol
John S. Sokol, President

BY: Stephen J. Toth
Stephen J. Toth, Vice President

Notary Public)
State of Ohio) SS:

On this 21st day of April, 2010, before the subscriber, a Notary for the State of Ohio, duly commissioned and qualified, personally came John S. Sokol and Stephen J. Toth of the Ohio Indemnity Company, to me personally known to be the individuals and officers described herein, and who executed the preceding instrument and acknowledged the execution of the same and being by me duly sworn, deposed and said that they are the officers of said Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of said Company, and the said Corporate Seal and signatures as officers were duly affixed and subscribed to the said instrument by the authority and direction of said Corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at Columbus, Ohio, the day and year above written.



OFFICIAL SEAL
SHERRY E. BIXLER
NOTARY PUBLIC, STATE OF OHIO
RECORDED IN PICKAWAY COUNTY
MY COMMISSION EXPIRES
01/06/2015

BY: Sherry E. Bixler
Sherry E. Bixler, Notary Public
My Commission Expires 01/06/2015

State of Ohio) SS:

I, the undersigned, Secretary of the Ohio Indemnity Company, a stock corporation of the State of Ohio, DO HEREBY CERTIFY that the foregoing Power of Attorney remains in full force.

Signed and sealed in Columbus, Ohio this 9th day of October 2010



BY: Matthew C. Nolan
Matthew C. Nolan, Secretary

Any reproduction or facsimile of this form is void and invalid.