

State of Tennessee
Department of Environment and Conservation
Division of Solid Waste Management

Solid Waste Management Program
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 14th Floor
Nashville, Tennessee 37243
615-532-0780

**REGISTRATION AUTHORIZING SOLID WASTE
DISPOSAL ACTIVITIES IN
TENNESSEE**

Registration Number: DML470000069

Date Issued: DRAFT

Issued to: **Waste Corporation of Tennessee, Inc.**

Activities Authorized: Construction, operation, closure, and post-closure care of a Class III disposal facility known as Yarnell Demolition Landfill, located in Knox County at 1550 Lamon Quarry lane, on the south side of Yarnell Road between Lovell Road and Campbell Station Road, in Knoxville, Tennessee for the disposal of landscaping and land clearing wastes, construction/demolition waste, shredded automotive tires, and/or certain wastes having similar characteristics and approved in writing by the Department.

By my signature this registration is issued in compliance with the provisions of the Tennessee Solid Waste Disposal Act (Tennessee Code Annotated, Section 68-211-101, et seq.), and applicable regulations developed pursuant to this law and in effect; and in accordance with the conditions and other terms set forth in this registration document and attached Registration Conditions.

Patrick J. Flood, PE, Director
Division of Solid Waste Management

PERMIT TERMS AND CONDITIONS

1. Recertification by Permittee for Facilities Whose Initial Operation is Delayed - If the facility does not initiate construction and/or operation within one year of the date of this permit, the permittee must re-certify the application in accordance with Rule 0400-11-01-.02(3)(d).
2. Duty to Comply - The permittee must comply with all conditions of this permit, unless otherwise authorized by the Department. Any permit noncompliance, except as otherwise authorized by the Department, constitutes a violation of the Act and is grounds for enforcement action, or for permit termination, revocation and re-issuance, or modification.
3. Need to Halt or Reduce Activity Not a Defense - 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.
4. Duty to Mitigate - In the event of noncompliance with the permit, the permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent adverse impacts on human health or the environment.
5. Proper Operation and Maintenance - The permittee shall at all times properly operate and maintain all facilities and systems of 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 effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of the permit.
6. Permit Actions - This permit may be modified, revoked and re-issued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and re-issuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any existing permit condition.
7. Property Rights - This permit does not convey any property rights of any sort, or any exclusive privilege.
8. Duty to Provide Information - The permittee shall furnish to the Commissioner, within a reasonable time, any relevant information which the Commissioner may request to determine whether cause exists for modifying, revoking and re-issuing, or terminating this permit, or to determine compliance with this permit. The permittee must also furnish to the

Commissioner, upon request, copies required to be kept by this permit. All records, including a copy of this permit and the approved Part I and Part II application, must be maintained at the facility or other locations as approved by the Commissioner.

9. Inspection and Entry - The permittee shall allow the Commissioner, or an authorized representative, to:

- (i) Enter at any reasonable time the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- (ii) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (iii) Inspect at any reasonable time any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit (Note: If requested by the permittee at the time of sampling, the Commissioner shall split with the permittee any samples taken.);
- (iv) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Act any substances or parameters at any location; and
- (v) Make photographs for the purpose of documenting items of compliance or noncompliance at waste management units, or where appropriate to protect legitimate proprietary interests, require the permittee to make such photos for the Commissioner.

10. Monitoring and Records

- (i) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- (ii) The permittee shall retain records of all required monitoring information. The permittee shall maintain records for all groundwater monitoring wells and associated ground-water surface elevations, for the active life of the facility, and for the post-closure care period as well. This period may be extended by request of the Commissioner at any time.
- (iii) Records of monitoring information shall include:
 - (I) The date, exact place, and time of sampling or measurements;
 - (II) The individual(s) who performed the sampling or measurements;

- (III) The date(s) analyses were performed;
- (IV) The individual(s) who performed the analyses;
- (V) The analytical techniques or methods used (including equipment used); and
- (VI) The results of such analyses.

11. Reporting Requirements

- (i) The permittee shall give notice to the Commissioner as soon as possible of any planned physical alterations or additions to the permitted facility.
- (ii) Monitoring results shall be reported at the intervals specified elsewhere in this permit.
- (iii) The permittee shall report orally within 24 hours from the time the permittee becomes aware of the circumstances of any release, discharge, fire, or explosion from the permitted solid waste facility which could threaten the environment or human health outside the facility. Such report shall be made to the Tennessee Emergency Management Agency, using the 24-hour toll-free number (800) 262-3300.
- (iv) 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 Commissioner, it shall promptly submit such facts or information.

12. Periodic Survey

- (i) Within 60 days of his receipt of the written request of the Commissioner to do so, the permittee shall cause to be conducted a survey of active and/or closed portions of his facility in order to determine if operations (e.g., cut and fill boundaries, grades) are being conducted in accordance with the approved design and operational plans. The permittee must report the results of such survey to the Commissioner within 90 days of his receipt of the Commissioner's request.
- (ii) The Commissioner may request such a survey:
 - (I) If he has reason to believe that operations are being conducted in a manner that significantly deviates from the approved plans; and/or
 - (II) As a periodic verification (but no more than annually) that operations are being conducted in accordance with the approved plans.
- (iii) Any survey performed pursuant to this part must be performed by a qualified land surveyor duly authorized under Tennessee law to conduct such activities.

13. Duration of Permits - This permit shall be effective for the operating life of the facility.
14. Effect of Permit - The issuance of this permit does not authorize the permittee to injure persons or property or to invade other private rights, or to violate any local law or regulations.
15. Transfer, Modification, Revocation and Re-issuance, and Termination of Permits - This permit may be transferred, modified, revoked or reissued, or terminated as set forth in 0400-11-01-.02(6).
16. Applicable Standards - All applicable facility standards of Rule Chapter 0400-11-01, Solid Waste Processing and Disposal Amendments shall be considered conditions of this registration.
17. Penalties - Any violation of the conditions or other terms of this registration may subject the registrant to the penalties set forth in Tennessee Code Annotated Section 68-211-114 and 68-211-117.
18. Hazardous Waste Restriction - No hazardous waste, as regulated by the Tennessee Hazardous Waste Management Act (TCA Section 68-212-101, et seq.), and the Rules adopted pursuant to that Act, shall be accepted at this facility.
19. Construction and Operation - The permittee shall construct and operate the facility in accordance with the approved engineering plans and operations manual which becomes a condition of this permit as Attachment I.
20. Financial Assurance - Prior to beginning operation, the permittee must file a Financial Assurance Instrument in accordance with Rule 0400-11-01-.03.
21. Special Waste - Except as specifically provided for in the Facility-Specific Conditions of this permit, the permittee may not accept for disposal any special waste unless approved to do so in writing by this Department.
22. Automobile Batteries - This facility is specifically prohibited from accepting automobile batteries for disposal.

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VARIANCES AND WAIVERS

The following variances or waivers from standards or requirements in Rule Chapter 0400-11-01, Solid Waste Processing and Disposal Amendments, are hereby granted in accordance with Rule 0400-11-01-.01(5):

Phases F-1, F-2, and F-3 of the permitted landfill area are not subject to the buffer zone standards set forth in Rule 0400-11-1-.04(3)(c).

FACILITY-SPECIFIC PERMIT CONDITIONS

The following conditions of this permit are established pursuant to Rule 0400-11-01-.02(5)(b):

1. Before construction/demolition waste may be placed in all portions of the site, the construction quality assurance report for placement/verification of five (5) foot geologic buffer (horizontal or vertical) meeting a permeability of 1×10^{-6} cm/sec for that area must have been reviewed and accepted by the Division of Solid Waste Management. The five-foot buffer must be placed against the quarry high wall or any other vertical rock formations internal to the waste placement footprint. The finished buffer surface must be inspected by a representative of this Division prior to the first waste being placed in each new area.
2. Class III wastes for this site are as defined in Rule 0400-11-1-.01(3)(c), except that farming wastes are excluded from disposal at this facility.
3. Waste deposited in this site will normally be covered in accordance with Class III requirements (once every 14 days). If the operator chooses to designate a section of the fill for Class IV waste only and operate it in accordance with Class IV requirements, he must submit a site map or a portion of a site map designating the section as a Class IV fill only, and receive approval from the Division before changing the cover frequency or any other applicable operating procedure.
4. The following parameters will be sampled on a semi-annual basis:

| | | |
|----------|-----------------------|--------------------------------|
| Arsenic | Ammonia (as N) | Chemical Oxygen Demand (COD) |
| Barium | Calcium | Biological Oxygen Demand (BOD) |
| Cadmium | Chloride | Total Dissolved Solids (TDS) |
| Chromium | Iron | Total Organic Carbon (TOC) |
| Cyanide | Magnesium (dissolved) | pH |
| Lead | Nitrate (as N) | Tannins and Lignins |
| Mercury | Potassium | Appendix I VOC's |
| Selenium | Sodium | |
| Silver | Sulfate | |

5. Some physical method (i.e., gage post or equivalent), subject to approval by DSWM shall be utilized to indicate the amount of sediment accumulation in the sedimentation basin.
6. All sediment control structures shall be inspected at least once every 30 days, and after all significant precipitation events. Any damaged structures must be repaired in a timely fashion.
7. All groundwater monitoring wells shall be monitored for the presence of methane gas accumulation within the well casings at least once per year. The monitoring shall be performed immediately after the well is opened for sampling (e.g., the well shall not be allowed to “breathe” or “equilibrate” before monitoring takes place). A contingency plan

which defines the action levels for methane and subsequent remedial actions to be taken in the event that methane is found at or above the defined action levels must be submitted to the DSWM personnel at the Knoxville Environmental Field Office within 90 days of issuance of this permit.

8. Only construction/demolition wastes, landscaping/land clearing wastes, shredded automotive tires, and certain approved wastes similar in characteristic may be accepted for disposal at this facility. Putrescible waste, oily waste, paint waste, contaminated soil, asbestos, and white goods may not be disposed of at this facility.
9. Prior to initial receipt of wastes at this facility, and during all periods of operation thereafter, the facility must maintain on-site a roll-off bin that is staged and ready to receive unacceptable materials being diverted from the landfill.
10. During the operational life of, and during the entirety of the post-closure period, the facility must maintain adequate erosion control on the crown and side slopes of the filled area. In the event that side-slope erosion becomes a chronic problem, the facility may be required to install additional interceptor berms on the side-slopes, as well as runoff let-down structures, armored ditches, and energy-dissipation devices.
11. The Permittee shall modify the Final Grading Plan and analyze the associated stormwater controls and structures for compliance with the Rule 0400-11-01-.04(2)(i)3& Rule 0400-11-01-.04(2)(i)6. The revised final grading plan for the site shall be submitted to the DSWM within 90 days after the effective date of this permit.