



July 8, 2020

FEDEX Tracking Number 8149 7330 3429

Ms. Martha Hynson
Division Chief, Solid Waste Operations
Maryland Department of the Environment
1800 Washington Boulevard, Suite 605
Baltimore, MD 21230-1719

Subject: **Groundwater Discharge Permit Renewal Application**
Groundwater Discharge Permit No. 2015-GWD-2445
Pappy, Inc. — Oak Avenue Rubble Landfill; Joppa, Maryland

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Dear Ms. Hynson:

Tetra Tech, Inc. on behalf of Waste Management is pleased to submit the enclosed Groundwater Discharge Permit Application for Unlined Rubble Landfills form for the renewal of the above referenced permit. Also enclosed is a copy of the Worker's Compensation Insurance policy (WLR C66043058), appropriate drawings and a copy of the most recent groundwater and leachate monitoring report prepared by Marks Environmental, Inc. (*Groundwater and Leachate Monitoring Report, Third Quarter 2019, dated December 2019*).

The Pappy, Inc., Oak Avenue Rubble Landfill was operated as a rubble Landfill in Harford County under Refuse Disposal Permit 2004-WRF-0104. The facility ceased accepting waste in 2007 and final capping was completed in 2008. By way of letter dated June 19, 2009, the Maryland Department of the Environment (MDE) formally approved the completion of the closure of the landfill and placed it in the "post-closure monitoring and maintenance period as required under Code of Maryland Regulation 26.04.07.22". Refuse Disposal Permit 2004-WRF-0104 expired on March 21, 2010 and has not been renewed.

The landfill is divided into two disposal areas: Phases I-III and Phase IV. Phases I-III encompass an area approximately 20.3 acres in size and consist of unlined cells that were constructed prior to the effective date identified in the liner regulations adopted in 1997. Phase IV encompasses an area approximately 15.9 acres in size and was constructed with a 60-mil high-density polyethylene (HDPE) base liner system with leachate collection as required by revised MDE regulations promulgated in 1997. Cap construction consists of two feet of final cover/vegetative soils underlain by a double-sided geocomposite drainage layer. The geocomposite is underlain by a 60-mil textured HDPE geomembrane underlain by two feet of protective cover soil.

The current renewal application has been prepared to address leachate discharge through the 20.3 acres of unlined cells in Phases I-III. It should be noted that since this area has been completely capped as described above, the closed landfill does not allow for continued surface water recharge. Accordingly, it is expected that the volume of leachate discharged to groundwater will continue to decline over the post-closure monitoring and maintenance period.

I trust you find this submittal satisfactory. If you have any questions regarding this application or require additional information, please contact me at your convenience at 410-990-4607 or peter.rich@tetratech.com.

Sincerely,

Peter A. Rich, P.E.
Principal Engineer

Enclosure

cc: David Kaasa, Waste Management

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Land Management Administration • Solid Waste Program
1800 Washington Boulevard • Suite 605 • Baltimore Maryland 21230-1719
410-537-3315 • 800-633-6101 x3315 • www.mde.maryland.gov

**Groundwater Discharge Permit Application
For Unlined Rubble Landfills**

Authority: Title 9, Environment Article, Annotated Code of Maryland, and Code of Maryland Regulations (COMAR) 26.08.04

Application for: New Permit Renewal Permit

Existing Permit No. 2015 -GWD- 2445 Issued Date: 02 / 05 / 2016 Expiration Date: 02 / 04 / 2021

Applicant's Legal Name: Pappy, Inc. (dba Waste Management)

Applicant's Status: Individual Corporation Government Other: _____

Corporation or Government Federal Tax Identification No.: 52 - 1561430

Maryland State Department of Assessments and Taxation (SDAT) ID No.: D02475960

Please note that a business/entity must be registered to do business in Maryland before a permit can be issued. The business or entity's information provided in this application must match the information in the SDAT register.

Proof of workers' compensation coverage is required under § 1-202 of the Environment Article. Please provide one of the following:

- (1) A copy of a Certificate of Compliance issued by the Maryland Workers' Compensation Commission; or
- (2) Workers' Compensation Insurance Policy/Binder Number: WLR C4570936A

Applicant's Mailing Address: 10376 Bullock Drive City: King George State: VA Zip Code: 22485

Applicant's Telephone No.: (479) 295 - 4676 Facsimile No.: () _____ - _____

Emergency Contact Name & Title: _____ Telephone No.: () _____ - _____

Facility/Site Name: Oak Avenue Rubble Landfill

Facility/Site Address: 1020 Oak Avenue City: Joppa State: MD Zip Code: 21085

County: Harford Maryland Grid Coordinates: N580000 / E830000 - NAD 83

County Zoning Map No.: 65 Lot/Parcel No.: 450 Deed/Liber/Folio No.: 1525 / 423

State Legislative District: 34A Local Council/Election District: A

Bay Tributary Watershed Code: 02130801 Latitude/Longitude (Deg/Min/Sec): 42 - 40 - 58.8 / 069 - 53 - 42.3

Site Acreage: 42.8 Landfill Acreage: 36.2 total / 20.3 unlined

Nature of Business (describe briefly): Closed rubble landfill. The acreage listed above is for the entire landfill footprint. The facility was certified closed by MDE via letter dated June 19, 2009 and is now in the post-closure monitoring and maintenance period as required under Code of Maryland Regulation 26.04.07.22 Figure 1 depicts the current landfill, all of which is capped. The 20.3 acre unlined, capped portion of the closed facility is considered subject to this permit application.

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List Other Environmental Permits Held For the Site: (e.g., NPDES-surface water; PSD-air emissions; RCRA-hazardous waste, etc).

MDE Refuse Disposal Permit (2004-WRF-0104), expired March 21, 2010

MDE Groundwater Discharge Permit (2015-GWD-2445)

Wastewater (Leachate) Description:

Residual landfill leachate generated prior to landfill closure infiltrating through landfill to cell floor. The entire landfill is synthetically capped, significantly limiting percolation through the landfill cover into the waste contained within the landfill. Percolation through the landfill cell floor is considered to occur only through the 20.3 acre unlined portion of the landfill.

Flow Calculations:

Average leachate generation rate for post-closure facilities in the northeast is 40 gal/acre/day (Bonaparte, R., D.E. Daniel, R.M. Koerner, 2002) Assessments and Recommendations for improving the Performance of Waste Containment Systems. (EPA/600/R-02/099). Flow calculation assumes percolation occurs only through 20.3 acre unlined portion of landfill. 40 gal/acre/day x 20.3 acres = 812 gallons/day.

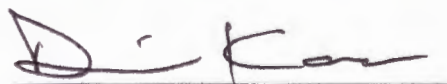
Groundwater Characteristics

(Attach Latest Groundwater Sample Results)

Map Of The Facility

This application must be accompanied by a copy of a U.S. Geological Survey topographical map or road map with a scale of 1" = 2000 feet, showing the exact location of the facility.

By signing this form, I the applicant or duly authorized representative, do solemnly affirm under the penalties of perjury that the contents of this application are true to the best of my knowledge, information, and belief. I hereby authorize the representatives of the Department to have access to the site of the facility for inspection and to records relating to this application at any reasonable time. I acknowledge that depending on the type of facility applied for, other permits or approvals may be required.



Signature of Applicant

7/8/2020

Date

David Kaasa

Applicant's Name (Print)

District Manager

Title

This Notice is provided pursuant to §10-624 of the State Government Article of the Maryland Code. The personal information requested on this form is intended to be used in processing your application. Failure to provide the information requested may result in your application not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment ("MDE") is a public agency and subject to the Maryland Public Information Act. This form may be made available on the internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by Federal or State law.

Privacy Act Notice: This Notice is provided pursuant to the Federal Privacy Act of 1974, 5 U.S.C. §552.a. Disclosure of your Social Security Number or Federal Employer Identification Number on this application is mandatory pursuant to the provisions of §1-203 (2003), Environment Article, Annotated Code of Maryland, which requires the MDE to verify that an applicant for a permit has paid all undisputed taxes and unemployment insurance. Social Security or Federal Employer Identification Numbers will not be used for any purposes other than those described in this Notice.