



CLEAN WATER PROGRAM
COUNTY: _____
MUNICIPALITY: _____

December 13, 2019

DEC 18 2019

Mr. B.R. Patel, P.E.
Environmental Program Manager
PA Department of Environmental Protection
Northeast Regional Office
2 Public Square
Wilkes Barre, PA 18711-1915

FACILITY NAME: _____
PERMIT #: _____
FILE TYPE: _____

**Re: Keystone Sanitary Landfill, Inc.
Permit # 101247
Part II Water Quality Management Permit Application**

Dear Mr. Patel:

Keystone Sanitary Landfill, Inc. submits one (1) original and two (2) copies of the attached Part II Water Quality Management (WQM) Permit Application for approval to construct proposed leachate treatment facilities at Keystone Sanitary Landfill located in the Borough of Dunmore, Lackawanna County, Pennsylvania. The application was discussed at the August 14, 2018 pre-application meeting.

This Part II WQM Permit is required for construction of the leachate treatment facilities for stream discharge of treated effluent. Meeting NPDES limits, beneficial use of treated effluent is also proposed and is addressed in this application. Keystone is also submitting the following permit applications to PADEP for this project.

- NPDES Permit
- Major Modification to Landfill Permit No. 101247

If you have any questions or require any additional information, please contact me at (570) 343-5782.

Sincerely,

Dominick DeNaples, Jr.
Site Manager

cc: Mr. T. Puller, Earthres Group, Inc.

Part II – Water Quality Management Permit Application

Leachate Treatment Plant

Dunmore Borough and Throop Borough, Lackawanna County, Pennsylvania
Earthres Project # 091018.064

December 2019

Prepared for:

Keystone Sanitary Landfill Inc.
249 Dunham Drive
Dunmore, PA 18512

Prepared by:

Earthres Group, Inc.
P.O. Box 468
Pipersville, PA 18947
Phone: (215) 766-1211

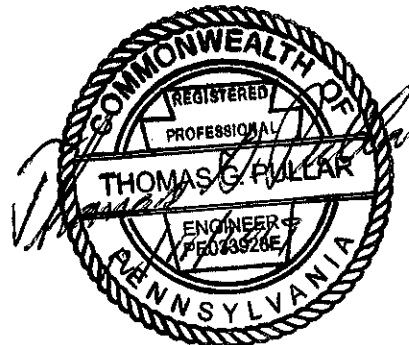


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ATTACHMENTS

Attachment A Figures and Drawings

- Figure 1 – Site Location Map
- Figure 2 – Proposed Leachate Treatment Schematic
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Attachment C Integrated Contingency Plan (PPC, SPR, SPCC) – Submitted under separate cover

SECTION 1.0

SECTION 1.0

INTRODUCTION AND CHECKLIST

INTRODUCTION

Keystone Sanitary Landfill, Inc. (KSL) submits a Part II-Water Quality Management (WQM) Permit Application for approval to construct the proposed leachate treatment plant (LTP) detailed within this application. The following permit applications will be filed with the Pennsylvania Department of Environmental Protection (PA DEP) for this project:

- A Part I – NPDES permit application for approval to discharge treated effluent to Eddy Creek and Little Roaring Brook;
- A Part II-WQM permit application for construction of the leachate treatment facilities prior to stream discharge or onsite beneficial use of the treated effluent;
- A Major Modification to Solid Waste Disposal Permit No. 101247 describing the revised leachate management plan associated with the stream discharge or use of treated effluent; and
- A Request for Determination was submitted on June 5, 2018 for air emissions from the LTP.

Currently leachate is pretreated on-site before being discharged to the Pennsylvania American Water Company (PAWC) Scranton wastewater treatment plant. The proposed system involves a two-phase, three-stage reverse osmosis (RO) membrane treatment system to treat leachate prior to stream discharge or beneficial use. Similar equipment has been constructed and permitted at the Commonwealth Environmental Systems Landfill that has demonstrated the effectiveness of RO systems to treat leachate and produce a high quality effluent capable of achieving their NPDES stream discharge permit limits. The information provided in this application details the modifications to the existing leachate treatment facilities and the new equipment to be provided to meet the NPDES effluent limits and allow it to be stream discharged or beneficially used for dust control or utility water.

The Part II-WQM permit application addresses the modifications to the existing KSL LTP. A Part II-WQM permit is required since stream discharge of treated effluent and onsite beneficial use is proposed. The application relies on the Design Engineer's Report and the Effluent Reuse

Monitoring Plan for the proposed activities since much of the proposed equipment and leachate management plan does not fit the structured format of the permit application forms.



DEC 18 2019

CHECKLIST FOR WATER QUALITY MANAGEMENT PERMIT

		APPLICANT'S ✓ CHECKLIST	PERMIT #	FILE TYPE:
APPLICANT NAME		Keystone Sanitary Landfill, Inc.		
<p>Check the following list to make sure that you have included all the required information. Place a checkmark in the column provided for all items completed and/or provided. Failure to provide all of the requested information will delay the processing of the application.</p> <p style="text-align: center;">ENCLOSE THIS CHECKLIST WITH YOUR APPLICATION FORM.</p>				
			Check <input checked="" type="checkbox"/> If Included	DEP Use Only
1.	General Information Form (GIF).		<input checked="" type="checkbox"/>	
2.	Appropriate application fee, with check payable to the Commonwealth of PA		<input checked="" type="checkbox"/>	
3.	Two (2) copies (original and 1 copy) of application, design module(s), and accompanying drawings and plans.		<input checked="" type="checkbox"/>	
	a. Certification and proper signatures.		<input checked="" type="checkbox"/>	
	b. Engineer's professional seal on each plan sheet.		<input checked="" type="checkbox"/>	
	c. <i>Design Engineer's Report</i> with signature and seal on cover		<input checked="" type="checkbox"/>	
	d. Properly notarized (original).		<input checked="" type="checkbox"/>	
	e. Technical specifications with engineer's seal and signature on cover		<input checked="" type="checkbox"/>	
	f. Additional copy for Delaware River Basin or Erie and Allegheny counties (if required).		<input type="checkbox"/>	
4.	Supplemental Information:		<input checked="" type="checkbox"/>	
	a. General Layout Diagram (unless design plans provide this information).		<input checked="" type="checkbox"/>	
	b. Sizes, Capacities and Dimensions Diagram (unless design plans provide this information).		<input checked="" type="checkbox"/>	
5.	Design Modules.		<input checked="" type="checkbox"/>	
6.	Topographic map with appropriate details.		<input checked="" type="checkbox"/>	
7.	Act 14 Notification.		<input checked="" type="checkbox"/>	
8.	Act 537 Approval (if required).		<input type="checkbox"/>	
9.	Cultural Resources Notification		<input checked="" type="checkbox"/>	
10.	Acts 67, 68 and 127 Notification (IW and Manure Storage Facilities only).		<input checked="" type="checkbox"/>	
11.	Proof of Public Notification (IW and Manure Storage Facilities only)		<input checked="" type="checkbox"/>	
12.	DRBC Notification (if required).		<input type="checkbox"/>	
13.	Other (specify):		<input type="checkbox"/>	