



October 5, 2020

Project No. 20-137492

Ms. El Kromhout

Florida Department of Environmental Protection
Permit Processing Central District
2600 Blair Stone Road, MS 4565
Tallahassee, FL 32399

**APPLICATION FOR RESEARCH, DEVELOPMENT, AND DEMONSTRATION – LEACHATE EVAPORATOR
J.E.D. SOLID WASTE MANAGEMENT FACILITY (WACS #89544)
ST. CLOUD, OSCEOLA COUNTY, FLORIDA**

Dear Ms. Kromhout:

On behalf of Waste Connections of Osceola County, LLC., Golder Associates Inc. has prepared this Application to renew a research, development, and demonstration (RD&D) project associated with the initial installation and operation of a leachate evaporator at the J.E.D. Solid Waste Management Facility. This Application package contains one hard copy of the Application. One electronic copy of the Application is also being sent via email. Payment for the \$1,000 for the first year of the RD&D permit will be made with credit card via the Florida Department of Environmental Protection's Business Portal.

Should you have any questions regarding this report, please call Mr. Kirk Wills at (813) 388-1026 or the undersigned at (904) 363-3430.

Sincerely,

Golder Associates Inc.

A handwritten signature in blue ink that reads 'Don E. Grigg'.

Don E. Grigg, PE
Senior Engineer and Associate

A handwritten signature in blue ink that reads 'Jesse Brown'.

Jesse C. Brown, PE
Senior Consultant and Associate

DEG/JCBams

CC: J.E.D. Solid Waste Management Facility

Enclosure

[https://golderassociates.sharepoint.com/sites/121785/project files/6 deliverables/rd&d permit renewal/jed evap app cover letter.docx](https://golderassociates.sharepoint.com/sites/121785/project%20files/6%20deliverables/rd&d%20permit%20renewal/jed%20evap%20app%20cover%20letter.docx)

Golder Associates Inc.
9428 Baymeadows Road, Suite 400 Jacksonville, Florida, USA 32256

T: +1 904 363-3430 +1 904 363-3445



Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(32)

Form Title: Application For a Permit to Construct and Operate a Research, Development and Demonstration Facility

Effective Date January 6, 2010

Incorporated in Rule: 62-701.310(5), F.A.C.

APPLICATION FOR A PERMIT TO CONSTRUCT AND OPERATE A RESEARCH, DEVELOPMENT AND DEMONSTRATION FACILITY

GENERAL INSTRUCTIONS: Pursuant to Section 403.70715, Florida Statutes,(FS) the Department may issue a Research, Development and Demonstration (RD&D) Permit to the owner or operator of any solid waste management facility who proposes to utilize an innovative and experimental solid waste treatment technology or process, for which permit standards have not been promulgated. The purpose of this application form is to assist the applicant in providing information to the Department for obtaining an RD&D permit. In accordance with Rule 62-701.315(9), Florida Administrative Code, (F.A.C.), a fee in the amount of \$1,000 per year, but not to exceed \$3,000 for three years, shall be submitted with the application by check made payable to the Department of Environmental Protection. The RD&D permit can be issued for not longer than three years and is renewable no more than three times. Complete appropriate sections for the type of facility for which application is made and include all additional information, drawings, and reports necessary to evaluate the facility.

Please Type or Print in Ink

A. GENERAL INFORMATION

1. Generally describe the type of facility to be operated under the RD&D permit:

The facility is proposing to construct and operate a leachate evaporation system. The system is manufactured by

Skagen and consists of an evaporator tank, a volatile organic compounds and ammonia stripper column, a landfill gas compressor and associated piping and appurtenances, all mounted on two trailer bodies.

2. Type of application:

Construction	<input type="checkbox"/>	Construction/Operation	<input checked="" type="checkbox"/>
Operation	<input type="checkbox"/>		

3. Classification of application:

New	<input type="checkbox"/>	Substantial Modification	<input type="checkbox"/>
Renewal	<input checked="" type="checkbox"/>	Minor Modification	<input type="checkbox"/>

4. Facility name: J.E.D. SOLID WASTE MANAGEMENT FACILITY

5. DEP ID number: 89544 County: OSCEOLA

6. Facility location (main entrance): 1501 OMNI WAY, ST. CLOUD FLORIDA, 34773

Northwest District
160 Government Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way Ste 200B
Jacksonville, FL 32256-7590
904-807-3300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
13051 N. Telecom Pky.
Temple Terrace, FL
813-632-7600

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
239-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

7. Location coordinates:

Section: 11,13,14,17,18 Township: 285 Range: 32E, 33E

Latitude: 28° 03' 32" Longitude: 81° 05' 46"

Datum: WGS84 Coordinate Method: DGPS

Collected by: Johnston's Surveying Company/Affiliation: Johnston's Surveying

8. Applicant name (operating authority): Waste Connections of Osceola County, LLC

Mailing address: 1510 Omni Way St. Cloud FL 34773
Street or P.O. Box City State Zip

Contact person: Kirk Wills Telephone: (813) 388-1026

Title: South Region Engineer

9. Authorized agent/Consultant: Golder Associates Inc.

Mailing address: 9428 Baymeadows Road, Suite 400 Jacksonville FL 32256
Street or P.O. Box City State Zip

Contact person: Don Grigg Telephone: (904) 363-3430

Title: Senior Engineer

10. Landowner (if different than applicant): _____

Mailing address: _____
Street or P.O. Box City State Zip

Contact person: _____ Telephone: (_____) _____

11. Approximate land area required for operation of this facility: < 0.5 acres (for the evaporator system)

12. Anticipated construction starting and completion dates:

From: October 2019 To: June 2020

13. Anticipated operation starting and completion dates:

From: June 2020 To: October 2021

B. ADDITIONAL INFORMATION


1. Attach a site plan, of a scale not greater than 200 feet to the inch, which shows the project location and identifies the proposed waste storage and handling areas, general facility layout, and any other relevant features such as water bodies or wetlands on or within 200 feet of the site and potable water wells on or within 500 feet of the site.
2. Attach a facility design and operation plan which includes:
 - a. A detailed description of how the wastes are to be handled or processed at the facility including any necessary testing required to properly operate the facility;
 - b. If applicable, process flow diagrams for the facility operations which are signed and sealed by a professional engineer;
 - c. A description of the types of equipment that will be used at the facility;
 - d. A projection of the volume and weights of material intended to be processed or handled at the facility;
 - e. A description of any expected air emissions and wastewater discharges from the facility which may be potential pollution sources;
 - f. A ground water monitoring plan which meets the applicable requirements of Rule 62-701.510 and Chapter 62-520, F.A.C. or a description why a ground water monitoring plan is not applicable to the facility; and
 - g. A description of what steps will be taken to prevent discharge of leachate and mixing of leachate with stormwater.
3. Attach a closure plan which describes how the facility will be closed upon completion of the project and how the closure activities will be funded.

C. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. Applicant:

The undersigned applicant or authorized representative of Waste Connections of Osceola County, LLC

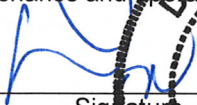
is aware that statements made in this form and attached information are an application for a research, development and demonstration Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.

 _____ Signature of Applicant or Agent	1501 Omni Way _____ Mailing Address
Kirk Wills, South Region Engineer _____ Name and Title (please type)	St. Cloud, FL 34773 _____ City, State, Zip Code
kirk.wills@wasteconnections.com _____ E-Mail address (if available)	(813)388-1026 _____ Telephone Number
	October 2, 2019 _____ Date

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this waste processing facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.

 _____ Signature	9428 Baymeadows Road, Suite 400 _____ Mailing Address
Don E. Grigg, PE, Florida Professional Engineer _____ Name and Title (please type)	Jacksonville, FL 32256 _____ City, State, Zip Code
	dgrigg@golder.com _____ E-Mail address (if available)
81578 _____ Florida Registration Number (please affix seal)	(904)363-3430 _____ Telephone Number
Authorization No. 1670	October 5, 2020 _____ Date

**WRITTEN CONSENT OF
THE SOLE MEMBER AND SOLE MANAGER OF THE BOARD OF MANAGERS OF WASTE
CONNECTIONS OF OSCEOLA COUNTY, LLC**

The undersigned, being the sole member and the sole manager of the Board of Managers of Waste Connections of Osceola County, LLC, a Florida limited liability company (the "Company"), hereby consents to the following actions and adopts the following resolutions:

WHEREAS, the Company's sole member and the sole manager of the Board of Managers wishes to authorize the Company's employees listed below to perform certain administrative tasks on behalf of the Company.

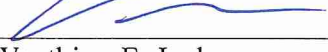
BE IT RESOLVED that each of Nikki Crews, Chris Ruane, and Kirk Wills be, and each of them hereby is, authorized to execute by and on behalf of the Company, any and all documents required in connection with the permit and regulatory applications, reports, filings, and other documentation relating to and necessary for the day-to-day operations of JED Landfill by the Company, including, without limitation, Title V and other permit renewal applications and reports, Florida Department of Environmental Protections reports and filings, discharge monitoring reports, and emissions and compliance reports for air quality, and all other documentation related thereto, and that any such action taken to date involving the above is hereby ratified and approved.

IN WITNESS WHEREOF, the undersigned sole member and the sole manager of the Board of Managers of the Company has duly executed this Written Consent in The Woodlands, Texas on the date set forth below.

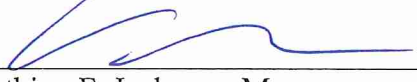
Dated: March 11, 2020

SOLE MEMBER:

FLORIDA WASTE HOLDINGS, INC., a Delaware corporation

By: 
Name: Worthing F. Jackman
Its: President and Chief Executive Officer

SOLE MANAGER OF THE BOARD OF MANAGERS:

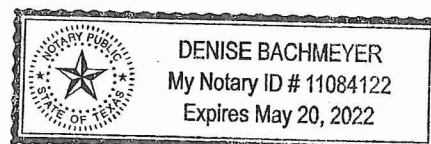

Worthing F. Jackman, Manager

STATE OF TEXAS §
 §
COUNTY OF MONTGOMERY §

This instrument was signed before me on the 11th day of March, 2020, by Worthing F. Jackman.

Notary's Printed Name: Denise Bachmeyer
Commission expires: 5/20/22


Notary Public, State of Texas





REPORT

Application for Research, Development, and Demonstration Permit

Waste Connections of Osceola County, LLC

J.E.D. Solid Waste Management Facility

Submitted to:

Florida Department of Environmental Protection

2600 Blair Stone Road, MS 4565

Tallahassee, FL 32399

Submitted by:

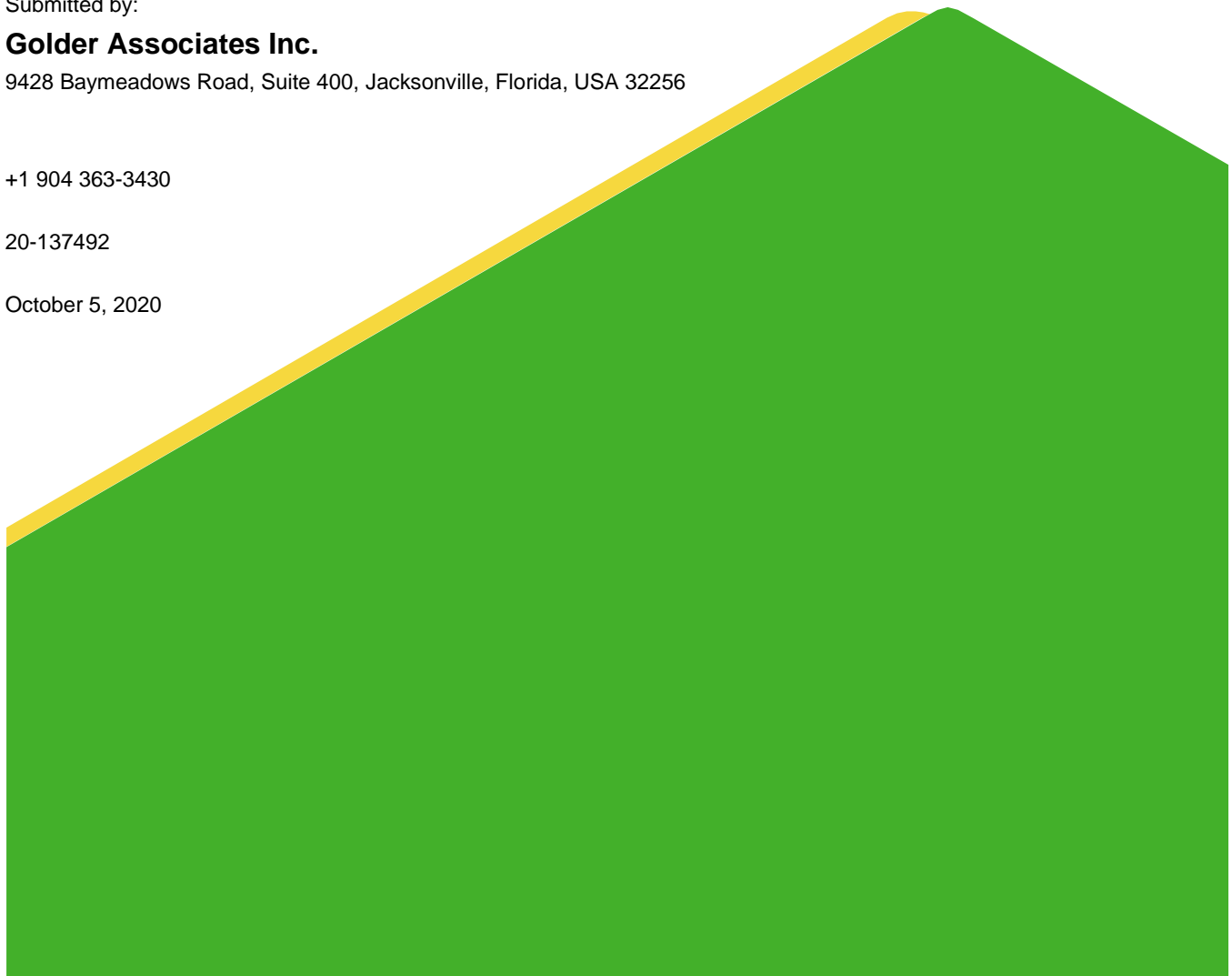
Golder Associates Inc.

9428 Baymeadows Road, Suite 400, Jacksonville, Florida, USA 32256

+1 904 363-3430

20-137492

October 5, 2020



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Florida Department of Environmental Protection

Waste Connections of Osceola County, LLC.

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1.0 INTRODUCTION

Waste Connections of Osceola County, LLC (WCOC) owns and operates the J.E.D. Solid Waste Management Facility (“JED Landfill”) in Osceola County, Florida, which is an active Class I landfill and is currently operating under operating Permit No. 0199726-033-SO-01 (and subsequent modifications) issued by the Florida Department of Environmental Protection (FDEP) on June 17, 2017. The 10-year operating permit expires on June 13, 2027 and authorizes operation of Phases 1 through 5, which includes Cells 1 through 15, representing a disposal area of approximately 208 acres.

In this application, WCOC is seeking authorization to renew a Research, Development and Demonstration (RD&D) Permit No. 019976-038-SO-21 to install and operate a Skagen leachate evaporator system (30,000 gallons per day), consisting of an evaporator tank, a volatile organic compounds (VOC) and ammonia stripper column, a landfill gas compressor system, and associated pumps, piping, and appurtenances. WCOC previously submitted an air construction permit application to the Division of Air Resource Management, which has been issued as permit number 0970079-014-AC.

2.0 DESIGN AND OPERATION PLAN

WCOC is seeking to renew the existing RD&D Permit to install and operate a leachate evaporation system at the JED Landfill. No changes are being proposed with this application from the initial application submitted to the FDEP on October 11, 2019. The following sections describe the information needed in FDEP Form 62-701.900(32).

2.1 Detailed description of how the wastes are to be handled or processed at the facility including any necessary testing required to properly operate the facility

Refer to the information submitted in the October 11, 2019 permit application.

2.2 Process Flow Diagrams for the facility operations which are signed and sealed by a professional engineer (if applicable)

Refer to the process flow diagrams submitted in the October 11, 2019 permit application.

2.3 Description of the types of equipment that will be used at the facility

Refer to the information submitted in the October 11, 2019 permit application.

2.4 Projection of the volume and weights of material intended to be processed or handled at the facility

Refer to the information submitted in the October 11, 2019 permit application.

2.5 Description of any expected air emissions and wastewater discharges from the facility which may be potential pollution sources

Refer to the information submitted in the October 11, 2019 permit application.

2.6 Groundwater monitoring plan which meets the applicable requirements of Rule 62-701.510 and Chapter 62-520, F.A.C. or a description of why a ground water monitoring plan is not applicable to the facility

The J.E.D. Solid Waste Management Facility has an existing approved groundwater monitoring plan (GWMP). No changes to the existing GWMP are anticipated for this project.

2.7 Description of what steps will be taken to prevent discharge of leachate and mixing of leachate with stormwater

Refer to the information submitted in the October 11, 2019 permit application.

3.0 CLOSURE PLAN

Refer to the information submitted in the October 11, 2019 permit application.


4.0 DESCRIPTION OF OPERATIONS

As required by Specific Condition C.8 of the existing RD&D Permit, this section describes the operations of the leachate evaporator system based upon operating records maintained at the facility. Note that the impacts of COVID-19 have impacted the progress of operations as Skagen (the leachate evaporator manufacturer) is a Canadian based company and international travel has been restricted during the global pandemic.

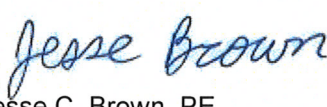
The leachate evaporator began initial startup and testing on June 14, 2020. The leachate evaporator unit has operated for a total of approximately 62 days since June (through the end of September) and is still undergoing initial startup and testing. The total amount of leachate evaporated since the initial startup date is approximately 483,901 gallons. The peak evaporation rate obtained thus far (during startup and testing) was 24,534 gallons per day, which occurred on September 19, 2020. No residual solids have been disposed of during the initial startup and testing time frame.

Signature Page

Golder Associates Inc.

Don E. Grigg, PE
Florida Professional Engineer No. 81578



Jesse C. Brown, PE
Senior Consultant and Associate

DEG/JCB/ams Oct 5, 2020

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