



County of Hernando
Procurement Department
Carla Rossiter-Smith, Chief Procurement Officer
15470 Flight Path Drive, Brooksville, FL 34604

[HDR] RESPONSE DOCUMENT REPORT

RFQ -A/E No. 23-R00046/PH

RFQ - Engineering Services on a Continuing Basis - Landfill

RESPONSE DEADLINE: November 6, 2023 at 10:00 am

Report Generated: Friday, April 5, 2024

HDR Response

CONTACT INFORMATION

Company:

HDR

Email:

kristen.wagner@hdrinc.com

Contact:

Kristen Wagner

Address:

4830 W Kennedy Blvd.

Suite 400

Tampa, FL 33609

Phone:

(813) 282-2300

Website:

www.hdrinc.com

Submission Date:

Nov 6, 2023 8:45 AM

ADDENDA CONFIRMATION

Addendum #1

Confirmed Nov 1, 2023 12:53 PM by Kristen Wagner

Addendum #2

Confirmed Nov 1, 2023 12:53 PM by Kristen Wagner

Addendum #3

Confirmed Nov 1, 2023 12:53 PM by Kristen Wagner

QUESTIONNAIRE

1. Acknowledgement and Attestation*

Pass

By responding to this RFQ, the respondent(s) certify that he/she has reviewed the sample contract, and its exhibits contained herein, and is familiar with their terms and conditions and finds them expressly workable.

We certify and declare that the foregoing is true and correct.

Please acknowledge below that you confirm the above statement:

Confirmed

2. Drug Free Workplace Certificate *

Pass

I have read and attest to, in accordance with Florida Statute 287.087 (current version), hereby certify that,

Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the workplace named above, and specifying actions that will be taken against violations of such prohibition.

Informs employees about the dangers of drug abuse in the workplace, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.

Gives each employee engaged in providing commodities or contractual services that are under proposal a copy of the statement specified above.

Notifies the employees that as a condition of working on the commodities or contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, pleas of guilty or nolo contendere to, any violation of Chapter 893, or of any controlled substance law of the State of Florida or the United States, for a violation occurring in the workplace, no later than five (5) days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.

Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.

Makes a good faith effort to continue to maintain a drug free workplace through the implementation of the Drug Free Workplace Program.

"As a person authorized to sign this statement, I certify that the above named business, firm or corporation complies fully with the requirements set forth herein".

Yes

3. Affidavit of Non Collusion and of Non-Interest of Hernando County Employees*

Pass

Certification that Vendor/Contractor affirms that the bid/proposal presented to the Owner is made freely, and without any secret agreement to commit a fraudulent, deceitful, unlawful or wrongful act of collusion.

I have read and attest that I am the Vendor/Contractor in the above bid/proposal, that the only person or persons interested in said proposal are named therein; that no officer, employee or agent of the Hernando County Board of County Commissioners (BOCC) or of

any other Vendor/Contractor is interested in said bid/proposal; and that affiant makes the above bid/proposal with no past or present collusion with any other person, firm or corporation.

Please confirm that you have read and attest to Affidavit of Non Collusion and of Non-Interest of Hernando County Employees
Confirmed

4. E-Verify Certification *

Pass

Vendor/Contractor acknowledges and agrees to the following:

Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of:

All persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and
All persons, including subcontractors, assigned by the Vendor/Contractor to perform work pursuant to the Contract with the department.

Confirmed

5. Sworn Statement

SWORN STATEMENT 287.133 (3) (A)*

Pass

I have read and attest that I understand that a "public entity crime" as defined in Paragraph 287.133 (1)(g), Florida Statutes (current version), means a violation of any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any proposal or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

I have read and attest that I understand that "convicted" or "conviction" as defined in Paragraph 287.133 (1)(b), Florida Statutes (current version), means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any Federal or State trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

I have read and attest that I understand that an "affiliate" as defined in Paragraph 287.133 (1)(a), Florida Statutes (current version), means:

- A. A predecessor or successor of a person convicted of a public entity crime; or
- B. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one (1) person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one (1) person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding thirty-six (36) months shall be considered an affiliate.

I have read and attest that I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes (current version), means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which proposals or applies to proposal on contracts for the provisions of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

I have read and attest that based on information and belief, the statement which I have confirmed below is true in relation to the entity submitting this sworn statement:

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH ONE (1) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31, OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT.

Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

IF YOU CHOOSE OPTION 3, PLEASE ATTACH A COPY OF THE FINAL ORDER

The entity submitting this sworn statement, or one (1) or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted Vendor/Contractor list

Please attach a copy of the final order

No response submitted

6. Authorized Signatures/Negotiators

AUTHORIZED SIGNATURES/NEGOTIATORS *

Pass

Please provide the information to support the statement below:

The Vendor/Contractor represents that the following persons are authorized to sign and/or negotiate contracts and related documents to which the Vendor/Contractor will be duly bound:

Name(s)

Title(s)

E-mail(s)

Phone no(s)

Katie E Duty, Vice President | katie.duty@hdrinc.com | 813.282.2352

Melanie E Fowler, Vice President | melanie.fowler@hdrinc.com | 813.282.2315

7. Vendor Information

TYPE OF ORGANIZATION *

Pass

Please select your organization type:

Corporation

COMPANY ID*

Pass

Please Provide Your:

State of Incorporation and

Federal I.D. NO.

Nebraska, 47-0680568

W9 FORM*

Pass

Please upload your company's W9 information

HDR_Engineering_Inc_W9.pdf

ACH ELECTRONIC PAYMENT*

Pass

An ACH electronic payment method is offered as an alternative to a payment by physical check. Please select one of the options.

Yes, ACH electronic payment method is acceptable.

ORGANIZATION CHART*

Pass

Proposer must provide an organization chart showing Proposer's team identifying specific responsibilities of Proposer and subcontractors.

HDR_Organization_Chart.pdf

PROJECT MANAGER QUALIFICATIONS*

Pass

Proposer must provide a resume of Project Manager listing qualifications, experience, education and training. The Project Manager must have adequate experience, generally considered as a working Project Manager on a minimum of two (2) projects, similar in size and scope to the RFQ - Engineering Services on a Continuing Basis - Landfill, within the past seven (7) years.

HDR_Project_Manager_Qualifications.pdf

KEY SUBCONTRACTOR*

Pass

Each Proposer must submit with its response a list of subcontractors who will perform the work in each of the following categories (key subcontractors). List the name of the proposed subcontractor, or "Proposer" if the Proposer will perform the work, after each work category:

Example:

- (1) Earthwork construction
- (2) Earthen dike construction
- (3) Soil bentonite backfill cut-off wall installation

- (4) Wet excavation/dredging work
- (5) Concrete form work
- (6) Equipment installation
- (7) Electrical and instrumentation installation
- (8) Control system integration
- (9) Wetland planting and establishment

If no subcontractors will be employed please state "NONE"

- A. Solid Waste planning: **NONE**
- B. subsurface investigation: **Ardaman & Associates**
- C. permit renewals: **JHS Environmental Engineering**
- D. environmental evaluations: **JHS Environmental Engineering**
- E. economic evaluations: **JHS Environmental Engineering**
- F. rate studies: **Raftelis**
- G. pro-formas: **Raftelis**
- H. stabilization studies: **JHS Environmental Engineering**
- I. annual reporting requirements: **JHS Environmental Engineering**

- A. landfill permitting & renewals: **JHS Environmental Engineering**
- B. leachate management system permit requirements: **NONE**
- C. groundwater issues: **Ardaman & Associates**
- D. landfill gas control and collection (to include Title V requirements): **JHS Environmental Engineering**
- E. gas to energy systems: **JHS Environmental Engineering**
- F. rate evaluation: **NONE**
- G. waste stream analysis: **NONE**
- H. master plan update: **NONE**

REFERENCES *

Pass

Proposer must provide a minimum of **three (3)** references in format shown below. References must be individuals that can be readily contacted and have first-hand knowledge of the Proposer's performance on the specific project performed by the Proposer. Each reference project must meet the following criteria:

Project at Substantial Completion or completed within the last seven (7) years.

Similar in size, dollar value and scope as this project.

Please provide information for 3 required References:

Business/Owner Name

Reference Contact Person

Reference Address

Reference Phone No.

Reference Email Address

Project Name

Project Location

Contract Project Manager

Site Superintendent

Contract Amount

Date Project Commenced

Date of Substantial Completion

Date of Final Completion

Description of Work Performed

Note: Experience shall be related to successfully completed projects within the last seven (7) years (i.e., the project must have been Substantially Complete within seven (7) years of the due date of this RFQ. Only projects that are complete or substantially complete as of the bid due date will be considered).

By submitting this information, I certify that the qualifications questionnaire information is true and correct to the best of my knowledge.

******REFERENCE NO. 1******

Business/Owner Name: Bay County, FL

Reference Contact Person: Glenn Ogborn

Reference Address: 11411 Landfill Road, Panama City Beach, FL 32413

Reference Phone No.: 850.233.5047

Reference Email Address: gogborn@baycountyfl.gov

Project Name: STEELFIELD ROAD LANDFILL, CLASS I LANDFILL SITING DESIGN, ERP, AND ENGINEERING DESIGN AND CONSTRUCTION

Project Location: Panama City Beach, FL

Contract Project Manager: Mark Roberts, PE

Site Superintendent: Glenn Ogborn

Contract Amount: \$800,000

Date Project Commenced: December 2018

Date of Substantial Completion: May 2021

Date of Final Completion: August 2021

Description of Work Performed: In 2018, HDR was selected to provide landfill siting design on a 246-acre area contiguous to the Steelfield Road Landfill. HDR designed and successfully obtained permits to construct a stormwater management system to accommodate a 170-acre future buildout of new landfill areas. Within HDR's design, the 246-acre area included the 170-acre landfill footprint, perimeter drainage ditches, buffer areas, roadways, and other essential landfill infrastructure.

The approved permit granted the County a 35-year construction permit to construct the stormwater management system for the future buildout. HDR and the County delineated the wetlands within the 170-acre combined footprint. The County is currently excavating the soil in the project site for operational uses.

In 2020, HDR provided construction-level engineering design services, bid support, and construction administration services for a new cell encompassing approximately 24 acres.

******REFERENCE NO. 2******

Business/Owner Name: Escambia County, FL

Reference Contact Person: Donald Seitz

Reference Address: 13009 Beulah Road, Cantonment, FL 32533

Reference Phone No.: 850.937.2164

Reference Email Address: dlseitz@myescambia.com

Project Name: PERDIDO LANDFILL SECTION 5 1B EXPANSION FDEP PERMITTING, CONSTRUCTION DESIGN, BID SUPPORT AND CONSTRUCTION ENGINEERING SERVICES

Project Location: Cantonment, FL

Contract Project Manager: Mark Roberts, PE

Site Superintendent: Donald Seitz

Contract Amount: \$900,000

Date Project Commenced: September 2020

Date of Substantial Completion: July 2023

Date of Final Completion: August 2023

Description of Work Performed: The project included permitting an approximately 20-acre upslope liner system. The construction of the cell was successfully completed in August 2023. HDR's design involved the installation of a double liner system over an unlined landfill, optimizing the airspace for the Perdido Landfill. HDR initially met with the County to perform the landfill planning and pre-design which included addressing environmental, financial, and landfill operations considerations.

The design, permitting and construction scope of work were based on a conceptual 20-acre footprint, grading both within and over the existing unlined waste. FDEP approved the permit application without a single RAI, HDR provided a conformed construction bid package to the County for bidding. We provided bid assistance and performed engineer's cost estimates for both the materials RFP and construction RFP, and were less than 3% of the winning bids on both estimates.

HDR provided construction engineering support throughout the construction portion project. The project was successfully completed without major design modifications during construction.

******REFERENCE NO. 3******

Business/Owner Name: Santa Rosa County, FL
Reference Contact Person: Kaz Szymoniak
Reference Address: 6337 Da Lisa Road, Milton, FL 32583
Reference Phone No.: 850.981.7139
Reference Email Address: kzs@santarosa.fl.us
Project Name: CENTRAL LANDFILL, LANDFILL GAS SYSTEM PERMITTING AND DESIGN

Project Location: Milton, FL
Contract Project Manager: Mark Roberts, PE
Site Superintendent: Kaz Szymoniak
Contract Amount: \$200,000
Date Project Commenced: August 2016
Date of Substantial Completion: August 2018
Date of Final Completion: February 2019

Description of Work Performed: HDR has been performing solid waste management consulting services for Santa Rosa County since 2006 and continues providing a wide range of solid waste engineering expertise. HDR's services have included solid waste management planning, design, permitting, bid and construction support services. Specific services related to landfill gas system services includes:

- Landfill gas collection system design, permitting, bid support, construction support, CQA and construction certification;
- Landfill gas control and reporting;
- Landfill gas to energy options study;
- Landfill gas conversion to compressed natural gas (CNG) for vehicle use feasibility study
- Cost/benefit analyses
- Preparation of conceptual plans and cost estimates
- Economic feasibility studies

8. Vendor/Contractor's License

VENDOR/CONTRACTOR'S LICENSE*

Pass

The Proposer must be a registered to do business in the State of Florida. **All Proposers and/or subcontractors performing work requiring a specialty license must be licensed in the State of Florida.** This includes but is not limited to electrical and mechanical

trades, as well as any other earthwork Contractor on the Proposer's team. Provide license information below for Proposer and all subcontractors identified herein.

Business_Licenses_HDR.pdf

9. Additional Required Forms

CORPORATE AFFIDAVIT *

Pass

Please download the below documents, complete, and upload.

- [Corporate Affidavit.pdf](#)

HDR_Corporate_Affidavit.pdf

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES*

Pass

Section 287.135 (Current Edition), Florida Statutes, prohibits agencies from contracting with companies for goods or services of \$1,000,000.00 or more, that are on either the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector Lists which are created pursuant to s. 215.473 F.S. (Current Edition), or the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725 F.S. (Current Edition), or companies that are engaged in a boycott of Israel or companies engaged in business operations in Cuba or Syria.

As the person authorized to bind on behalf of respondent, I hereby certify that the company identified above in the section entitled "Respondent Vendor Name" is not listed on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or the Scrutinized Companies that Boycott Israel List. I further certify that the company is not engaged in a boycott of Israel. I understand that pursuant to section 287.135 (Current Edition), Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs and does not have business operations in Cuba or Syria.

I have read and attest that I confirm the above is acknowledged.

Confirmed

10. Hernando County Employment Disclosure Certification Statement

IS ANY OFFICER, PARTNER, DIRECTOR, PROPRIETOR, ASSOCIATE OR MEMBER OF THE BUSINESS ENTITY A FORMER EMPLOYEE OF HERNANDO COUNTY WITHIN THE LAST TWO (2) YEARS? *

Pass

No

IS ANY OFFICER, PARTNER, DIRECTOR, PROPRIETOR, ASSOCIATE OR MEMBER OF THE BUSINESS ENTITY A RELATIVE OR MEMBER OF THE HOUSEHOLD OF A CURRENT HERNANDO COUNTY EMPLOYEE THAT HAD OR WILL HAVE ANY INVOLVEMENT WITH THIS PROCUREMENT OR CONTRACT AUTHORIZATION?*

Pass

No

RELATIVES AND FORMER HERNANDO COUNTY EMPLOYEES - ROLES AND SIGNATURES

If you answered yes to the either of the two prior questions regarding relatives or Hernando employees, please download the below documents, complete, and upload.

- [Relatives and Former Hernan...](#)

No response submitted

11. Vendor Survey

VENDOR SURVEY *

Pass

Please provide information on where you received the knowledge of the bid/request for Qualifications (mark all that apply):

County's eProcurement Portal (Open Gov Procurement)

VENDOR SURVEY - OTHER

If you choose Other please list how you received the knowledge of the bid/request for Proposals.

No response submitted

ANTICIPATES SERVICES OUTSIDE THE UNITED STATES OR FLORIDA*

Pass

Anticipates Services outside the United States or Florida

If the respondent anticipates services under the contract or any subcontracts will be performed outside the United States or Florida, the respondent shall provide in a written statement which must include, but need not be limited to the type of services that will be performed at a location outside the United States or Florida and the reason why it is necessary or advantageous to go outside the United States or Florida to perform such services. (Does not apply to any project that receives federal moneys)

No

12. Submittal Requirements

Firms will be judged not only on their past experience for the type of work involved, but also on their ability to address issues critical to the success of the project requirements outlined in this RFQ document. Following are elements that will be used to evaluate each firm's qualifications:

LETTER OF TRANSMITTAL AND INTRODUCTION*

Pass

Bidder must use this portion to upload their Letter of Transmittal and Introduction.

1. Letter_of_Transmittal_and_Intro_HDR.pdf

PROJECT TEAM *

Pass

Identify the project principal, the project manager, key staff and subconsultants. Present a brief discussion regarding how the team's qualifications and experience relate to the specific project.

- Qualifications and relevant individual experience.
- Unique knowledge of key team members relating to the project.
- Experience on projects as a team.
- Key staff involvement in project management and on-site presence.
- Time commitment of key staff.
- Qualifications and relevant subconsultant experience.

2. _Project_Team_HDR.pdf

FIRM/TEAM CAPABILITIES*

Pass

- Are the lines of authority and coordination clearly identified?
- Are essential management functions identified?
- Are the functions effectively integrated? (e.g., subconsultants' role delineated)?
- Current and projected work load.

Note: Organization charts and graphs depicting your capacity may be included.

3. _Firm-Team_Capabilities_HDR.pdf

PRIOR EXPERIENCE*

Pass

Use this portion of your submittal to describe relevant experiences with the project type described in this RFQ document and various services to be provided.

- Experience of the key staff and firm with projects of similar scope and complexity.
- Demonstrated success on past projects of similar scope and complexity.
- References.

Note: Include the name and current telephone number of the owner's project manager for every project listed.

4._Prior_Experience_HDR.pdf

PROJECT APPROACH - BUDGET METHODOLOGY/COST CONTROL*

Pass

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Budget Methodology/Cost Control.
 - Establish and maintain estimates of probable cost within owner's established budget.
 - Control consultant contract costs
 - Coordinate value engineering activities

5._Project_Approach-Budget_HDR.pdf

PROJECT APPROACH - QUALITY CONTROL METHODOLOGY*

Pass

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Quality Control Methodology.
 - Insure County procedures are followed

- Improve energy efficiency through the use of an integrated design process, life cycle costing, the use of an energy standard (current OSA energy code) and the specification of energy efficient materials, systems, and equipment
- Insure the project is designed for durability and maintainability

5._Project_Approach-Quality_HDR.pdf

PROJECT APPROACH - SCHEDULE*

Pass

For the project and services outlined in the RFQ document, describe how you plan to accomplish the following project control and management issues:

- Schedule.
 - Manage the required work to meet the established schedule

5._Project_Approach-Schedule_HDR.pdf

WORK LOCATION*

Pass

Describe where the prime and subconsultants will do the key work elements of this project.

- Proximity of firms office as it may affect coordination with the County's project manager and the potential project location.
- Firm's familiarity with the project area.
- Knowledge of the local labor and material markets.

6._Work_Location_HDR.pdf

13. Optional

OPTIONAL UPLOAD OF ADDITIONAL INFORMATION

Pass

Please upload any optional/additional information not requested elsewhere. Respondent may supply a full pdf of their proposal here, this should be done on addition to responding above to questions 12.1 through 12.7.

HDR_23-R00046PH_Landfill-Continuing-Services.pdf

14. EXCEPTIONS

1. Proposers may take exception to certain requirements in this RFQ. All exceptions shall be clearly identified in this section, with a written explanation of the exception and an alternate proposal (if applicable). The County, at its sole discretion, may reject any exceptions or specifications within the proposal.
2. The Contract that the County intends to use for award is attached for reference. Any exceptions to this standard Contract must be clearly indicated by return of the standard Contract with the Proposal, with exceptions clearly noted. The County has the right to require the selected Proposer to sign the attached Contract or to negotiate revisions to the Contract language prior to execution of the Contract, at its sole discretion.

PROPOSER'S CERTIFICATION*

Pass

I have carefully examined the Request for Qualifications (RFQ), Instructions to Proposers, General and/or Special Conditions, Specifications, RFQ Proposal and any other documents accompanying or made a part of this invitation.

I agree that my RFQ will remain firm for a period of up to one hundred and eighty (180) days in order to allow the County adequate time to evaluate the Proposals. Furthermore, I agree to abide by all conditions of the Proposal.

I certify that all information contained in this RFQ is truthful to the best of my knowledge and belief. I further certify that I am a duly authorized to submit this RFQ on behalf of the Consultant/Firm as its act and deed and that the Consultant/Firm is ready, willing and able to perform if awarded the Contract.

I further certify that this RFQ is made without prior understanding, agreement, connection, discussion, or collusion with any person, firm or corporation submitting a RFQ for the same product or service; no officer, employee or agent of the Hernando County BCC or of any other Proposer interested in said RFQ; and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

I further certify that having read and examined the specifications and documents for the designated services and understanding the general conditions for Contract under which services will be performed, does hereby propose to furnish all labor, equipment, and material to provide the services set forth in the RFQ.

I hereby declare that the following listing states any clarifications, any and all variations from and exceptions to the requirements of the specifications and documents. The undersigned further declares that the "work" will be performed in strict accordance with such requirements and understands that any exceptions to the requirements of the specifications and documents may render the Proposer's Proposal non-responsive.

I take exceptions, explained in the subsequent answer.

EXCEPTIONS

Pass

If you selected "Exceptions" in the preceding question, please provide any exceptions to this RFQ.

14.2_Exceptions_(HDR).pdf

Request for Taxpayer Identification Number and Certification

**Give Form to the
 requester. Do not
 send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	<p>1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. HDR ENGINEERING, INC.</p> <p>2 Business name/disregarded entity name, if different from above</p> <p>3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.</p> <p> <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input checked="" type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ <small>Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.</small> <input type="checkbox"/> Other (see instructions) ▶ _____ </p>	<p>4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):</p> <p>Exempt payee code (if any) _____</p> <p>Exemption from FATCA reporting code (if any) _____</p> <p><small>(Applies to accounts maintained outside the U.S.)</small></p>
	<p>5 Address (number, street, and apt or suite no.) See instructions. 1917 S 67th ST</p> <p>6 City, state, and ZIP code OMAHA NE 68106-2973</p> <p>7 List account number(s) here (optional)</p>	<p>Requester's name and address (optional)</p>

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number	
OR	
Employer identification number	47-0680568

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ▶	ASSISTANT TREASURER	Date ▶ 10/17/2023
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

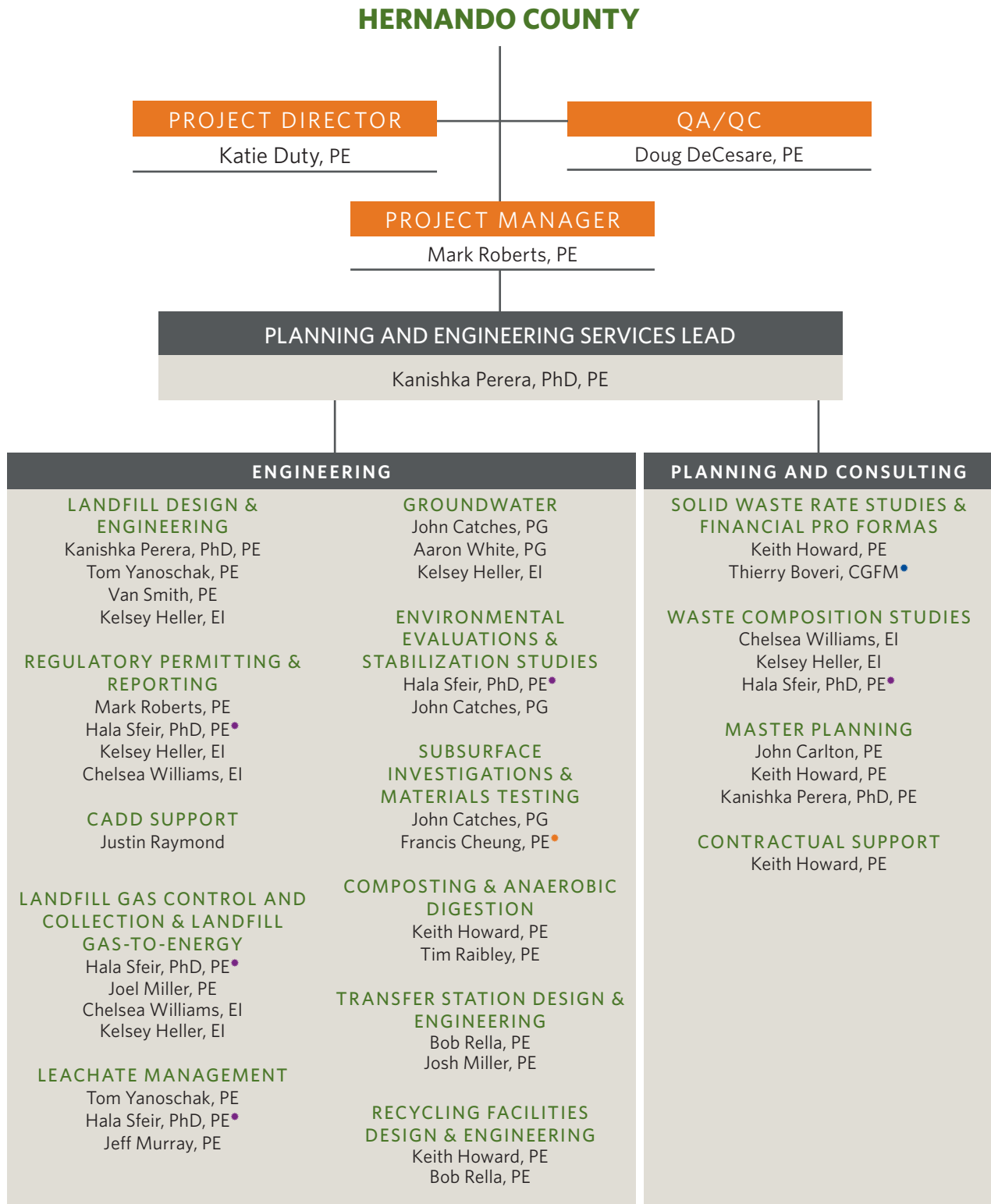
- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.



Organizational Chart



Key: [•]JHS Environmental Engineering [•]Ardaman and Associates [•]Raftelis



Mark Roberts, PE

Project Manager

RELEVANCE TO HERNANDO COUNTY

- Successful project management record; brings a national perspective on successful solutions
- Wide range of technical experience in all areas listed in the RFQ, and has a strong understanding of the Northwest Waste Management Facility

Mark has more than 33 years experience in solid waste engineering. He is an HDR "Senior Professional Associate" as an expert in regard to the design, permitting, and construction of solid waste landfill systems. He is experienced in designing and permitting landfill bottom liners and closure systems, landfill stormwater runoff and treatment systems, and leachate collection and treatment systems. Mark has been a leader in landfill mining, bioreactor landfills, mechanically stabilized walls, exposed geomembrane covers, and solar energy caps. He continues to work on the forefront of innovative solid waste design and permitting to enable clients to find opportunities in achieving the highest level of environmental protection and economic benefits in an ever-changing industry.

EDUCATION

ME, Environmental Engineering, University of Florida

BA, History/English
Centre College

PROFESSIONAL REGISTRATIONS

Professional Engineer, FL,
No. 54187

Professional Engineer, NE,
No. 8618

Professional Engineer, IL,
No. 062062011

Professional Engineer, MA,
No. 6177279957

Professional Engineer, KY,
No. 28731

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of
North America

INDUSTRY TENURE

33 years

HDR TENURE

17 years

AVAILABILITY FOR HERNANDO COUNTY

70%

Hernando County, Northwest Waste Management Facility, General Engineering Services, Brooksville, FL

Senior Technical Engineer. From 2009 to 2013, HDR provided solid waste professional engineering support for landfill closure, landfill leachate control and collection, landfill gas collection and control, and landfill master planning. HDR prepared an Environmental Resource Permit (ERP) modification application to modify the NWWMF's stormwater control. HDR combined all the existing ERPs into one facility-wide permit and addressed leachate drainage issues in Cells 3C and 3D sumps and applied for the FDEP permit modification and oversaw construction of sump repairs. HDR prepared annual landfill capacity reports and site life updates for the NWWMF and prepared an operations permit renewal application of the active Northwest C&D Disposal Facility in 2009 and 2010. HDR addressed the NWWMF's Clean Air Act-NSPS requirements for landfill gas generation. HDR worked with the USEPA and FDEP to provide a smooth permitting process for acquiring the facility's Title V air permit.

Hernando County, Landfill Master Plan Northwest Waste Management Facility, Brooksville, FL

Senior Technical Engineer. HDR prepared an update of the NWWMF master plan design. HDR worked closely with landfill staff to make the most efficient use of potential airspace. The plan encompassed the future of solid waste disposal activities for the 300-acre property including citizen's waste drop off areas, recycling, MSW disposal, C&D disposal and borrow soil. The plan included cost projects for expansions and phased closures and addressed concerns regarding geotechnical analysis and potential regulatory concerns.

Hernando County, Landfill Closure Northwest Waste Management Facility, Brooksville, FL

Senior Technical Engineer. HDR assisted the County with the 19.5-acre partial closure for the Northwest Waste Management Facility (NWWMF). The Phase I Landfill Closure project included the design and construction of a 40-mil LLDPE/geocomposite closure cap, two feet of cover soil from onsite sources, gabion downchutes and an expansion of the landfill gas collection system. The permit application included veneer slope stability analysis, road stability analysis, modifications to the stormwater control system, geocomposite drainage evaluation and technical specifications.

Tomoka Farms Road Phase II Landfill Area 4 Expansion Design and Permitting, Volusia County, FL Daytona Beach, FL

Project Manager. HDR is currently providing complete design, permitting, bid support and construction management services for a 15-acre expansion for a Subtitle D landfill in Florida. The landfill expansion includes a double liner system and a dewatering design due to high groundwater levels in the project area. The design included the termination and transition design from the existing Area 3 expansion to the last horizontal expansion area of the Phase II landfill, Area 4.

Bay County, Steelfield Road Class I Landfill On-Site Leachate Treatment Feasibility Study and Preliminary Design, Panama City Beach, FL

Project Manager. HDR is currently reviewing onsite treatment options based on the landfill's leachate characteristics to meet the FDEP's requirements for groundwater. HDR is investigating the feasibility of re-purposing a wastewater treatment plant that has been

MARK ROBERTS, PE (CONTINUED)

treating municipal wastewater and is going off-line. The Bay County Solid Waste Department has the opportunity to move it to the landfill site to help treat landfill leachate. HDR is working with the County to determine what additional treatment may be necessary to meet the FDEP requirement for discharge into a rapid infiltration basin (RIB) on site.

Republic Services of Florida, Cedar Trail Landfill Valley Fill Expansion Design and Permitting, Bartow, FL

Project Manager. HDR provided complete design and permitting services to prepare an FDEP permit application for the Cedar Trail Landfill Valley Fill Expansion located between the lined area of the Class 1 landfill, the lined areas of the Class III landfill and the unlined area of the Class III landfill. The work included the preparation of permit application documents that meet the requirements of FAC 62-701 for design, operation, closure, and post-closure of the valley fill area.

Bay County, Storm Water Design Improvements for Steelfield Road Solid Waste Disposal Facility, Panama City Beach, FL

Project Manager. HDR was contracted to provide professional engineering services associated with the Steelfield Road Landfill for a creek crossing repair and improvements. Due to major storms, damage was sustained at two sections of the landfill perimeter road at creek crossings, and at nearby surface water sampling locations. The landfill intends to use the perimeter road at the creek crossing areas as a future site access for waste vehicles entering the site to the new expansion areas of the landfill facility.

Santa Rosa County, Central Landfill Gas Collection System for LFG Conversion to CNG, Milton, FL

Project Manager. HDR designed, permitted, and provided construction oversight and certification services for Santa Rosa County's Central Landfill in Milton, Florida for a landfill gas collection and control system. The system consists of 30 vertical gas extraction wells, a horizontal toe-drain gas collection well, gas header and lateral piping, gas condensate controls, blowers/compressors, and the flare station. HDR also provided a landfill gas collection system operations and maintenance plan for the successful operation of system and has continued to provide on-site support and training since startup.

Santa Rosa County with the support of HDR is currently designing a system to convert their landfill gas (LFG) into a useful compressed natural gas (CNG) to power waste collection

vehicles at the site. HDR is responsible for complete engineering services from planning, permitting, and construction certification to convert the landfill gas into CNG and provide a fueling station located near the landfill's scale-house. As part of the initial planning services, HDR developed a detailed CNG cost estimate and financial analysis.

Miami-Dade County, Solid Waste Master Plan, Miami, FL

Technical Advisor. Miami-Dade County and HDR engaged in a planning process to chart the path of solid waste management for a 50 year period to ensure long-term, environmentally safe and economical handling, recycling and disposal of the County's solid waste. The planning process was performed under two phases, Phase I was performed with a goal of identifying short and long-term solid waste management needs and to identify alternatives to meet those needs. During Phase II, the Planning Team worked closely with a Solid Waste Advisory Committee (SWAC) to develop possible waste management scenarios, prepare a financial forecast and analyze the Sustainable Return on Investment (SROI) for each scenario, and develop an implementation plan for the selected scenario.

Escambia County, Perdido Landfill Phasing and Capital Improvements Plan, Cantonment, FL

Project Manager. HDR was retained to prepare the 2014 Perdido Landfill Volume Calculations report to determine the volume of airspace consumed over the previous year's operations and measure remaining permitted airspace, and estimate the future remaining site life. HDR prepared a capital project plan to estimate the future expense schedule for long-term planning over the next 10 years and the next phases of future landfill expansion. HDR provided fill staging plans and provided estimates of approximate costs associated with each stage of development that can be used for future capital budgeting purposes. The report consisted of cost estimates and drawings summarizing each construction phase, air space availability, landfilling period, associated landfill mining activity, and approximate construction periods. HDR updated the capital improvement project worksheet to forecast Escambia County's estimated annual funding requirements.



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HDR Engineering, Inc.

[Events](#) [Name History](#)

Detail by Entity Name

Foreign Profit Corporation
HDR ENGINEERING, INC.

Filing Information

Document Number	P06487
FEI/EIN Number	47-0680568
Date Filed	06/20/1985
State	NE
Status	ACTIVE
Last Event	AMENDMENT
Event Date Filed	06/03/2022
Event Effective Date	NONE

Principal Address

1917 S. 67th Street
Omaha, NE 68106

Changed: 05/28/2020

Mailing Address

1917 S. 67th Street
Omaha, NE 68106

Changed: 05/28/2020

Registered Agent Name & Address

CT CORPORATION SYSTEM
1200 S. PINE ISLAND ROAD
PLANTATION, FL 33324



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Detail by Entity Name

Florida Profit Corporation
ARDAMAN & ASSOCIATES, INC.

Filing Information

Document Number	L40551
FEI/EIN Number	59-2984496
Date Filed	01/02/1990
Effective Date	12/28/1989
State	FL
Status	ACTIVE
Last Event	CORPORATE MERGER
Event Date Filed	09/17/2009
Event Effective Date	NONE

Principal Address

8008 SOUTH ORANGE AVE.
ORLANDO, FL 32809

Changed: 05/13/1992

Mailing Address

3475 E. FOOTHILL BLVD.
PASADENA, CA 91107

Changed: 01/03/2018

Registered Agent Name & Address

C T CORPORATION SYSTEM
1200 SOUTH PINE ISLAND ROAD
PLANTATION, FL 33324

Name Changed: 09/23/2004

Address Changed: 09/23/2004

Officer/Director Detail

Name & Address

Title SRVPAS

COX, ERNEST A., III
8008 SOUTH ORANGE AVENUE
ORLANDO, FL 32809



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Detail by Entity Name

Florida Limited Liability Company
JHS ENVIRONMENTAL ENGINEERING LLC

Filing Information

Document Number L17000124418
FEI/EIN Number 20-0368567
Date Filed 06/07/2017
State FL
Status ACTIVE

Principal Address

278 NEEDLES TRAIL
LONGWOOD, FL 32779

Mailing Address

278 NEEDLES TRAIL
LONGWOOD, FL 32779

Registered Agent Name & Address

SFEIR, HALA A
278 NEEDLES TRAIL
LONGWOOD, FL 32779

Authorized Person(s) Detail

Name & Address

Title MGR

SFEIR, HALA A
278 NEEDLES TRAIL
LONGWOOD, FL 32779

Annual Reports

Report Year	Filed Date
2021	01/31/2021
2022	01/22/2022
2023	03/28/2023

Document Images

[03/28/2023 -- ANNUAL REPORT](#)

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[01/22/2022 -- ANNUAL REPORT](#)

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Detail by Entity Name

Foreign Profit Corporation
RAFTELIS FINANCIAL CONSULTANTS, INC.

Filing Information

Document Number F0500000923
FEI/EIN Number 20-1054069
Date Filed 02/10/2005
State NC
Status ACTIVE

Principal Address

227 West Trade Street
Suite 1400
Charlotte, NC 28202

Changed: 02/09/2017

Mailing Address

227 WEST TRADE STREET
SUITE 1400
CHARLOTTE, NC 28202

Changed: 07/06/2016

Registered Agent Name & Address

HAIRSTON, ANTHONY
463 Wilford Avenue
Longwood, FL 32750

Name Changed: 01/23/2015

Address Changed: 01/23/2015

Officer/Director Detail

Name & Address

Title CORPORATE SECRETARY

McIntyre, Christine
227 West Trade Street
Suite 1400
Charlotte, NC 28202



Licensee

Name: **DUTY, KATIE S.** License Number: **67816**
 Rank: **Professional Engineer** License Expiration Date: **02/28/2025**
 Primary Status: **Current** Original License Date: **03/19/2008**
 Secondary Status: **Active**

Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
4213	Current	HDR ENGINEERING, INC.	Registry		Registry	

LICENSEE DETAILS

8:36:20 PM 11/5/2023

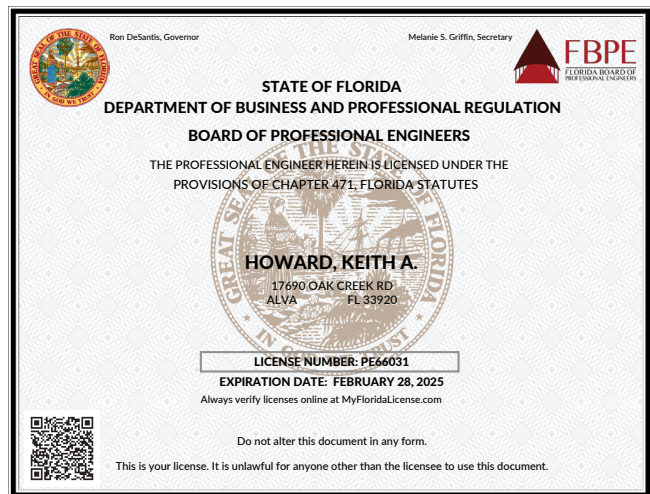
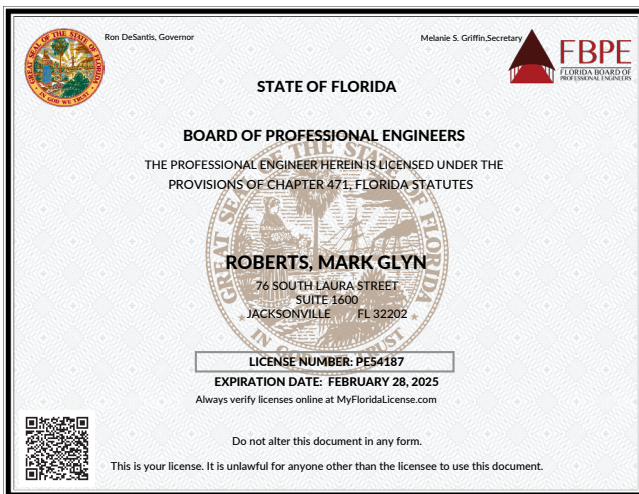
This is a business tracking record only.
 Click here for information on how to verify that this business is properly licensed.

Licensee Information

Name:	ARDAMAN & ASSOCIATES, INC (Primary Name)
Main Address:	8008 SOUTH ORANGE AVENUE BELLE ISLE Florida 32809
County:	ORANGE

License Information

License Type:	Geology Business Information
Rank:	Business Info
License Number:	
Status:	Current,Active
Licensure Date:	12/08/1992
Expires:	





Florida dbpr Department of Business & Professional Regulation

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LICENSEE DETAILS

Licensee Information

Name:	PERERA, KAMISHKA (Primary Name)
Main Address:	452 N. BRIDGESTONE AVE. JACKSONVILLE Florida 32259
County:	DUVAL
License Location:	452 NORTH BRIDGESTONE AVENUE FLORIDA SAINT JOHNS FL 32259
County:	DUVAL

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	67647
Status:	Current,Active
Licensure Date:	01/30/2008
Expires:	02/28/2025

Special Qualifications

Qualification Effective	
Civil	01/30/2008

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LICENSEE DETAILS

Licensee Information

Name:	YANOSCHAK, THOMAS MICHAEL (Primary Name)
Main Address:	5009 MARTIN FARM ROAD RALEIGH North Carolina 27613
County:	OUT OF STATE

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	44200
Status:	Current,Active
Licensure Date:	03/15/1991
Expires:	02/28/2025

Special Qualifications

Qualification Effective	
-------------------------	--

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LICENSEE DETAILS

Licensee Information

Name:	DUTY, KATIE S. (Primary Name)
Main Address:	4830 W KENNEDY BLVD SUITE 400 TAMPA Florida 33609
County:	HILLSBOROUGH

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	67816
Status:	Current,Active
Licensure Date:	03/19/2008
Expires:	02/28/2025

Special Qualifications

Qualification Effective	
Civil	08/31/2007

Florida dbpr Department of Business & Professional Regulation

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LICENSEE DETAILS

Licensee Information

Name:	CATCHES, JOHN S. (Primary Name)
Main Address:	HDR ENGINEERING INC (DBA Name) 1917 S 67TH STREET OMAHA Nebraska 68106
County:	OUT OF STATE

License Information

License Type:	Professional Geologist
Rank:	PG
License Number:	PG2203
Status:	Current,Active
Licensure Date:	11/30/2001
Expires:	07/31/2024

Special Qualifications

Qualification Effective	
-------------------------	--

Florida dbpr Department of Business & Professional Regulation

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LICENSEE DETAILS

Licensee Information

Name:	MILLER, JOSHUA ROBERT (Primary Name)
Main Address:	4000 WOODS RIDER LOOP ODESSA Florida 33556
County:	HILLSBOROUGH

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	88941
Status:	Current,Active
Licensure Date:	01/24/2020
Expires:	02/28/2025

Special Qualifications

Qualification Effective	
Mechanical	01/24/2020

Florida dbpr Department of Business & Professional Regulation

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LICENSEE DETAILS

Licensee Information

Name:	MILLER, JOEL B. (Primary Name)
Main Address:	6804 CRUZ STREET AUSTIN Texas 78741
License Mailing:	6804 CRUZ STREET AUSTIN TX 78741

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	66477
Status:	Current,Active
Licensure Date:	06/28/2007
Expires:	02/28/2025

Special Qualifications

Qualification Effective	
Civil	02/18/2007

Florida dbpr Department of Business & Professional Regulation

ONLINE SERVICES

- Apply for a License
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- File a Complaint
- Continuing Education Course Search
- View Application Status
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- Unlicensed Activity Search
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LICENSEE DETAILS

Licensee Information

Name:	SFEIR, HALA A. (Primary Name)
Main Address:	278 NEEDLES TRAIL 278 NEEDLES TRL LONGWOOD Florida 32779
County:	SEMINOLE

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	54083
Status:	Current,Active
Licensure Date:	02/12/1999
Expires:	02/28/2025

Florida dbpr Department of Business & Professional Regulation

HOME CO

ONLINE SERVICES

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- View Food & Lodging Inspections
- File a Complaint
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- Find Exam Information
- Unlicensed Activity Search
- AB&T Delinquent Invoice & Activity List Search

LICENSEE DETAILS

Licensee Information

Name:	CHEUNG, FRANCIS KAI-PUI (Primary Name)
Main Address:	6117 CRYSTAL VIEW DR ORLANDO Florida 32819
County:	ORANGE

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	36382
Status:	Current,Active
Licensure Date:	10/15/1985
Expires:	02/28/2025

CORPORATE AFFIDAVIT

(To be filled in and executed if the Vendor/Contractor is a Corporation)

NEBRASKA
STATE OF ~~FLORIDA~~
DOUGLAS
COUNTY OF ~~HERNANDO~~

Laurie S. Vik being duly sworn, deposes and says that ^{she} ~~he~~ is ^{assistant} ~~secretary~~ of

HDR Engineering, Inc., a corporation organized and existing under and by

virtues of the laws of the State of Florida, and having its principal office at:

4830 W Kennedy Blvd, Suite 400, Tampa, FL 33609 (Address)

Affiant further says that he is familiar with the records, minute books and bylaws of

HDR Engineering, Inc. (Name of Corporation) of the

corporation, is duly authorized to sign Katie E. Duty, Vice President (Title)

the Bid for Hernando County Engineering Services on a Continuing Basis-Landfill for said corporation by virtues of:
by Consent and Agreement of the Board of Directors

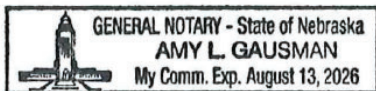
(State whether a provision of bylaws or a Resolution of the Board of Directors. If by Resolution, give date of adoption).

August 15, 2022



Laurie S. Vik
Affiant

Sworn to before me this 2nd day of November, 2023.



Amy L Gausman
Notary Public

This document should be completed and returned with your submittal.



November 6, 2023

County of Hernando
Submitted via OpenGov

RE: RFQ No. 23-R00046/PH | Engineering Services on a Continuing Basis - Landfill

Dear Members of the Professional Services Review Committee:

At HDR, we understand that Hernando County's (County) solid waste management program faces unique opportunities in the coming years. Our job is to listen to your needs and develop the best solutions for your program and community. Within this submittal we focus on the value that HDR brings specifically to your solid waste program. Our full-service team brings together uniquely qualified local and national solid waste engineering and planning expertise, plus experienced project management to deliver cost effective, timely and innovative solutions. We also offer fresh perspectives as well as detailed experience at the Northwest Solid Waste Management Facility. Our team offers the following unique features to the County:

- ✓ **We understand the County's Solid Waste Management System needs over the next 5 years and beyond.** HDR currently provides Continuing Solid Waste Engineering Services to the County and we have maintained an understanding of the County's future solid waste management needs. In the **Project Approach section** of our proposal, we highlight our understanding of all facets of your Solid Waste Management Program. The HDR team is prepared to continue providing quality solid waste services to the County and will require no learning curve.
- ✓ **We are a collaborative firm who efficiently works together with other consultants to achieve the County's goals.** HDR maintains excellent working relationships with County staff and the other engineering consultants who support the County. For this project, we have collaborated with other firms who have specific knowledge of the County's Program. In the **Project Team section** of our proposal, we include specialized personnel to provide continuity in support and expertise. Also, we will coordinate seamlessly with other firms, as needed, to support the County's needs.
- ✓ **We have a full-service, experienced team of solid waste engineering and planning experts.** HDR is a leader in solid waste consulting services in engineering, regulatory compliance and planning in Florida. Our Organization Chart, within the **Project Team section** of this proposal, illustrates the diversity, depth and strength of our team. The team presented also actively works together on solid waste projects throughout the State. As your Project Manager, Mark Roberts, PE, leads this highly-qualified team of professionals to continue successful delivery of quality solid waste services. Mark has also successfully managed solid waste projects for the County, coordinated projects with County staff, and maintains a detailed understanding of the County's program and facilities.
- ✓ **We provide innovative and cost saving solutions to solid waste management system issues.** HDR delivers nationwide expertise identifying and applying potential cost saving techniques in all areas of solid waste management such as landfill engineering, organic waste composting, anaerobic digestion, leachate management and treatment, landfill gas collection and landfill gas to energy programs. In the **Prior Experience section** of our proposal, we provide similar and recent cases of the continuing services we successfully deliver to Florida clients.



✓ **We are a local firm.** At HDR, we maintain our commitment to be a local engineer for clients in the FDEP's Southwest District. We maintain a multi-office approach with our team based primarily out of Tampa, Jacksonville, and Orlando. We have two offices within 1.5 hours of the County and have provided field personnel on past solid waste projects for the County directly from our local offices so as not to incur high travel costs. We are also well positioned to coordinate with the FDEP's Southwest District in Tampa and Headquarters in Tallahassee regularly. As our Project Manager, Mark participates regularly in FDEP Information Exchanges and has been involved in FDEP Rule Making Committees over the last 25 years.

HDR is dedicated to provide Hernando County the best value for all services and finding opportunities to achieve the highest level of environmental protection and economic benefits for your solid waste program. As the leaders of our team, we want to express our sincere commitment to Hernando County. We will make sure that all issues are communicated clearly, deliverables are reviewed thoroughly, and value is realized at every opportunity. We respectfully request consideration to serve Hernando County for Continuing Landfill Engineering Services. As requested, our letter has been signed by an individual authorized to make representation and negotiate for HDR, Katie Duty. Upon selection of this contract, we commit to negotiate in good faith. If you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,

HDR Engineering, Inc.

Mark Roberts, PE
Project Manager / Vice President

904.598.8979 / Mark.Roberts@hdrinc.com
76 South Laura Street, Suite 1600
Jacksonville, FL 32202

Katie E. Duty
Vice President

813.282.2352 / Katie.Duty@hdrinc.com
4830 W Kennedy Blvd, Suite 400
Tampa, FL 33609

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4. Prior Experience	29
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2 PROJECT TEAM

HDR has assembled a team of local and regional experts, highly dedicated and experienced to assist the County with the tasks that may arise as part of this contract. The proposed HDR Team has combined expertise in every aspect of solid waste engineering and planning. Our collaborative expertise will serve to guide the County through the variety of scope items in an innovative and effective manner. We have provided an organization chart on page 5, as well as two-page resumes for each team member in the pages that follow.



HDR is an employee-owned corporation. For more 106+ years, we have partnered with our clients to push boundaries and shape communities. With more than 11,000 employees in more than 200 locations around the world, we think global and act local. Our Florida staff provides engineering and planning services for clients throughout the state. HDR employs a multi-disciplined engineering staff of over 400 in Florida, with nearly half located in the Tampa and Sarasota offices.

For this contract, HDR will be teaming with three subconsultants: Ardaman and Associates, Inc., JHS Environmental Engineering, and Raftelis.



Ardaman and Associates, Inc.

Ardaman & Associates, Inc. (Ardaman) is a geotechnical drilling and engineering company headquartered in Orlando, Florida, with offices in Tampa and Sarasota. HDR and Ardaman have a long history of working together on important projects throughout Florida. The proximity of the Ardaman offices to Hernando County will provide for responsive and efficient geotechnical services for the project. For this contract, Ardaman will provide subsurface investigations and materials testing as it may arise throughout the contract.



JHS Environmental Engineering

JHS Environmental Engineering (JHS) is a solution-oriented consulting firm based in Wekiva Springs, Florida. JHS ensures a solution that is the most environmentally sound, the most cost-effective, and the most socially responsible. In a time where regulations are increasingly stringent and ever complicated, JHS bridges the gap between science and funding, compliance and understanding. JHS is familiar with Hernando County as they have introduced a municipal solid waste (MSW) composting facility to decrease the solid waste input into Hernando County landfills, increasing the County's total recycling to 55%.

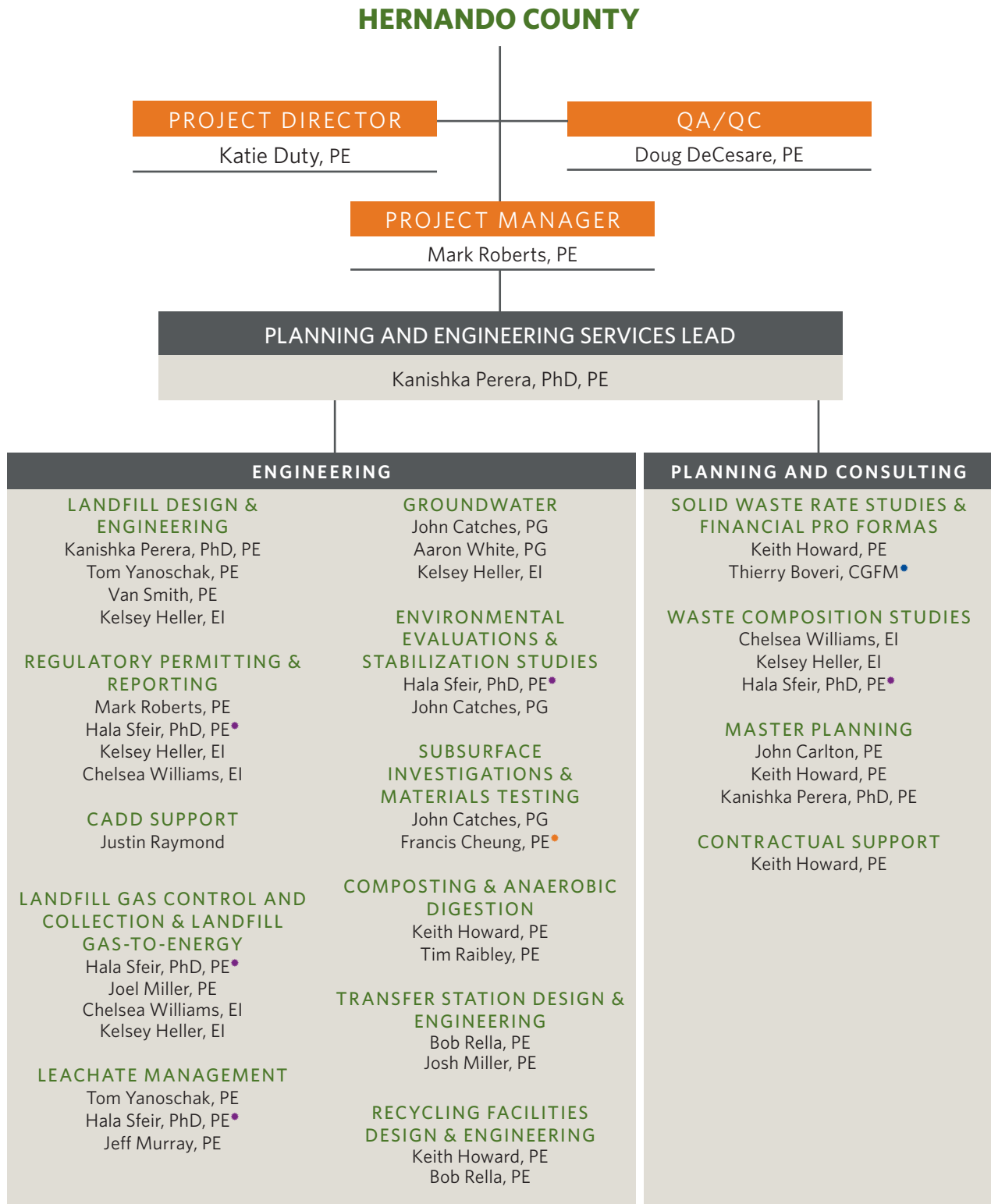


Raftelis

Raftelis, formally Public Resources Management Group (PRMG), is an established utility financial and management consulting firm that specializes in financial and strategic planning and management consulting services to the public utility sector with clients in Florida and throughout the United States. Raftelis' office is located close by in Maitland, Florida. The firm's personnel have extensive experience in utility rates, finance, economics, accounting, cost of service analysis, impact fees, and utility resource planning, which brings a unique combination of skills and experience to serve their clients with the utmost level of quality.



Organizational Chart



Key: [•]JHS Environmental Engineering [•]Ardaman and Associates [•]Raftelis



Mark Roberts, PE

Project Manager

RELEVANCE TO HERNANDO COUNTY

- Successful project management record; brings a national perspective on successful solutions
- Wide range of technical experience in all areas listed in the RFQ, and has a strong understanding of the Northwest Waste Management Facility

Mark has more than 33 years experience in solid waste engineering. He is an HDR "Senior Professional Associate" as an expert in regard to the design, permitting, and construction of solid waste landfill systems. He is experienced in designing and permitting landfill bottom liners and closure systems, landfill stormwater runoff and treatment systems, and leachate collection and treatment systems. Mark has been a leader in landfill mining, bioreactor landfills, mechanically stabilized walls, exposed geomembrane covers, and solar energy caps. He continues to work on the forefront of innovative solid waste design and permitting to enable clients to find opportunities in achieving the highest level of environmental protection and economic benefits in an ever-changing industry.

EDUCATION

ME, Environmental Engineering, University of Florida

BA, History/English Centre College

PROFESSIONAL REGISTRATIONS

Professional Engineer, FL, No. 54187

Professional Engineer, NE, No. 8618

Professional Engineer, IL, No. 062062011

Professional Engineer, MA, No. 6177279957

Professional Engineer, KY, No. 28731

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of North America

INDUSTRY TENURE

33 years

HDR TENURE

17 years

AVAILABILITY FOR HERNANDO COUNTY

70%

Hernando County, Northwest Waste Management Facility, General Engineering Services, Brooksville, FL

Senior Technical Engineer. From 2009 to 2013, HDR provided solid waste professional engineering support for landfill closure, landfill leachate control and collection, landfill gas collection and control, and landfill master planning. HDR prepared an Environmental Resource Permit (ERP) modification application to modify the NWWMF's stormwater control. HDR combined all the existing ERPs into one facility-wide permit and addressed leachate drainage issues in Cells 3C and 3D sumps and applied for the FDEP permit modification and oversaw construction of sump repairs. HDR prepared annual landfill capacity reports and site life updates for the NWWMF and prepared an operations permit renewal application of the active Northwest C&D Disposal Facility in 2009 and 2010. HDR addressed the NWWMF's Clean Air Act-NSPS requirements for landfill gas generation. HDR worked with the USEPA and FDEP to provide a smooth permitting process for acquiring the facility's Title V air permit.

Hernando County, Landfill Master Plan Northwest Waste Management Facility, Brooksville, FL

Senior Technical Engineer. HDR prepared an update of the NWWMF master plan design. HDR worked closely with landfill staff to make the most efficient use of potential airspace. The plan encompassed the future of solid waste disposal activities for the 300-acre property including citizen's waste drop off areas, recycling, MSW disposal, C&D disposal and borrow soil. The plan included cost projects for expansions and phased closures and addressed concerns regarding geotechnical analysis and potential regulatory concerns.

Hernando County, Landfill Closure Northwest Waste Management Facility, Brooksville, FL

Senior Technical Engineer. HDR assisted the County with the 19.5-acre partial closure for the Northwest Waste Management Facility (NWWMF). The Phase I Landfill Closure project included the design and construction of a 40-mil LLDPE/geocomposite closure cap, two feet of cover soil from onsite sources, gabion downchutes and an expansion of the landfill gas collection system. The permit application included veneer slope stability analysis, road stability analysis, modifications to the stormwater control system, geocomposite drainage evaluation and technical specifications.

Tomoka Farms Road Phase II Landfill Area 4 Expansion Design and Permitting, Volusia County, FL Daytona Beach, FL

Project Manager. HDR is currently providing complete design, permitting, bid support and construction management services for a 15-acre expansion for a Subtitle D landfill in Florida. The landfill expansion includes a double liner system and a dewatering design due to high groundwater levels in the project area. The design included the termination and transition design from the existing Area 3 expansion to the last horizontal expansion area of the Phase II landfill, Area 4.

Bay County, Steelfield Road Class I Landfill On-Site Leachate Treatment Feasibility Study and Preliminary Design, Panama City Beach, FL

Project Manager. HDR is currently reviewing onsite treatment options based on the landfill's leachate characteristics to meet the FDEP's requirements for groundwater. HDR is investigating the feasibility of re-purposing a wastewater treatment plant that has been

MARK ROBERTS, PE (CONTINUED)

treating municipal wastewater and is going off-line. The Bay County Solid Waste Department has the opportunity to move it to the landfill site to help treat landfill leachate. HDR is working with the County to determine what additional treatment may be necessary to meet the FDEP requirement for discharge into a rapid infiltration basin (RIB) on site.

Republic Services of Florida, Cedar Trail Landfill Valley Fill Expansion Design and Permitting, Bartow, FL

Project Manager. HDR provided complete design and permitting services to prepare an FDEP permit application for the Cedar Trail Landfill Valley Fill Expansion located between the lined area of the Class 1 landfill, the lined areas of the Class III landfill and the unlined area of the Class III landfill. The work included the preparation of permit application documents that meet the requirements of FAC 62-701 for design, operation, closure, and post-closure of the valley fill area.

Bay County, Storm Water Design Improvements for Steelfield Road Solid Waste Disposal Facility, Panama City Beach, FL

Project Manager. HDR was contracted to provide professional engineering services associated with the Steelfield Road Landfill for a creek crossing repair and improvements. Due to major storms, damage was sustained at two sections of the landfill perimeter road at creek crossings, and at nearby surface water sampling locations. The landfill intends to use the perimeter road at the creek crossing areas as a future site access for waste vehicles entering the site to the new expansion areas of the landfill facility.

Santa Rosa County, Central Landfill Gas Collection System for LFG Conversion to CNG, Milton, FL

Project Manager. HDR designed, permitted, and provided construction oversight and certification services for Santa Rosa County's Central Landfill in Milton, Florida for a landfill gas collection and control system. The system consists of 30 vertical gas extraction wells, a horizontal toe-drain gas collection well, gas header and lateral piping, gas condensate controls, blowers/compressors, and the flare station. HDR also provided a landfill gas collection system operations and maintenance plan for the successful operation of system and has continued to provide on-site support and training since startup.

Santa Rosa County with the support of HDR is currently designing a system to convert their landfill gas (LFG) into a useful compressed natural gas (CNG) to power waste collection

vehicles at the site. HDR is responsible for complete engineering services from planning, permitting, and construction certification to convert the landfill gas into CNG and provide a fueling station located near the landfill's scale-house. As part of the initial planning services, HDR developed a detailed CNG cost estimate and financial analysis.

Miami-Dade County, Solid Waste Master Plan, Miami, FL

Technical Advisor. Miami-Dade County and HDR engaged in a planning process to chart the path of solid waste management for a 50 year period to ensure long-term, environmentally safe and economical handling, recycling and disposal of the County's solid waste. The planning process was performed under two phases, Phase I was performed with a goal of identifying short and long-term solid waste management needs and to identify alternatives to meet those needs. During Phase II, the Planning Team worked closely with a Solid Waste Advisory Committee (SWAC) to develop possible waste management scenarios, prepare a financial forecast and analyze the Sustainable Return on Investment (SROI) for each scenario, and develop an implementation plan for the selected scenario.

Escambia County, Perdido Landfill Phasing and Capital Improvements Plan, Cantonment, FL

Project Manager. HDR was retained to prepare the 2014 Perdido Landfill Volume Calculations report to determine the volume of airspace consumed over the previous year's operations and measure remaining permitted airspace, and estimate the future remaining site life. HDR prepared a capital project plan to estimate the future expense schedule for long-term planning over the next 10 years and the next phases of future landfill expansion. HDR provided fill staging plans and provided estimates of approximate costs associated with each stage of development that can be used for future capital budgeting purposes. The report consisted of cost estimates and drawings summarizing each construction phase, air space availability, landfilling period, associated landfill mining activity, and approximate construction periods. HDR updated the capital improvement project worksheet to forecast Escambia County's estimated annual funding requirements.



Doug DeCesare, PE

QA/QC

RELEVANCE TO HERNANDO COUNTY

- HDR's national leader in solid waste management engineering
- Nationally recognized expert in leachate collection, gas system and stormwater management
- Leads a team of Solid Waste Design Quality Review Specialists

Doug is HDR's Waste Sector Director and is experienced in a wide variety of solid waste, and environmental projects, including transfer station permitting, MSW, and C&D landfill permitting and design, leachate collection system design and treatment, MSW, and C&D landfill closure design, MSW leachate recirculation system design, MSW landfill gas collection system design, storm water management design, construction administration, and construction quality assurance. For 26 years, Doug has been involved in all aspects of landfills from operations, permitting, design, and construction and understands how the design can impact operations and construction. Doug will provide expert advisory services for this project.

EDUCATION

MS, Civil Engineering, North Carolina State University, 2002

PROFESSIONAL REGISTRATIONS

Professional Engineer, WY, No. 14738

Professional Engineer, IA, No. 21443

Professional Engineer, NE, No. E-14357

Professional Engineer, CO, No. 0051341

Professional Engineer, VA, No. 038558

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of North America (SWANA), Member

INDUSTRY TENURE

22 years

HDR TENURE

20 years

AVAILABILITY FOR HERNANDO COUNTY

40%

Lee-Hendry Landfill Master Plan and Expansion, Lee County, FL

Project Task Manager. HDR is providing professional consulting and engineering services, including design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems.

Larimer County Public Works, Regional Wasteshed Planning Study and Comprehensive Solid Waste Engineering Services, Larimer County, CO

Project Manager. HDR was retained to assist Larimer County and the North Front Range Regional Wasteshed Planning Coalition with the development of a long-term sustainable solid waste management system. Following the evaluation and through the adoption of the Solid Waste Infrastructure Master Plan, the County is in the process of implementing the infrastructure for the future including a transfer station, new landfill, compost facility (yard and food waste), and a construction and demolition debris processing facility. HDR is currently providing the design and permitting services for the transfer station and the landfill.

Landfill Master Plan, City of Billings, MT

Project Manager. HDR was requested to update the City of Billings Master Plan for the operations of the landfill. HDR incorporated existing changes to the landfill operation, integrated the Landfill Drop-off Facility, optimized the life of the landfill asset, and provided a vision for the management of the landfill site.

City of Sioux Falls, Solid Waste Management Master Plan, Sioux Falls SD

Project Manager. The City of Sioux Falls, South Dakota retained HDR to assist them with developing a road map for the future of their

solid waste management system. The City wanted to look down the road and determine if what may not make sense today, may make sense 30-40 years from now. As such, the goal of the Solid Waste Management Master Plan (SWMMP) is to determine if continued landfilling is going to remain as their core business or invest in an alternative emerging technology. Simultaneously, the existing programs and facilities of the City were evaluated for efficiencies and opportunities for a more comprehensive and integrated waste management system.

DMASWA, Master Site Development Plan, Dubuque, IA

Project Manager. Metropolitan Area Solid Waste Agency (DMASWA) retained HDR to assist them with the planning of their landfill facility. With the landfill having a permitted capacity of over 50 years, DMASWA realized a need for a master plan regarding the infrastructure of the facility. Aged facilities, site constraints and challenges, and the potential loss of the existing entrance due to Iowa Department of Transportation plans, there became a need to improve site operations and facilities now and in the future. HDR worked with DMASWA to identify short-term and long-term needs and evaluated operations in developing a master site development plan that included new scales and scale house, residential drop off areas, materials recovery facility, education center, landfill gas to energy facility, and a compost facility. As a result of the master site development planning process, a short-term plan was developed that included an additional scale house improvements, better queuing, a new maintenance building, and a small vehicle user area. Design of these short-term facilities is currently underway.



KATIE DUTY, PE

PROJECT PRINCIPAL

Katie is a Vice President of HDR and serves as the Florida Area Operations Manager. She has broad-based experience in civil engineering across the spectrum of water, wastewater, and water resources infrastructure. Her strengths include team leadership, project management, quality control, preparation of plans and specifications, cost estimating, and construction support. Katie has led teams both large and small for design and evaluation projects related to planning and infrastructure design for municipal, state, and federal clients. She has most recently served as the Program Manager for all of the projects associated with the overall design and construction of the \$500-million C-44 Reservoir and Stormwater Treatment Area (STA) Project being built by both the South Florida Water Management District (SFWMD) and the US Army Corps of Engineers (USACE).

EDUCATION

BS, Civil Engineering,
Stevens Institute
of Technology

PROFESSIONAL REGISTRATIONS

Professional Engineer: FL

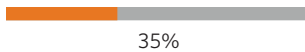
INDUSTRY TENURE

22 years

HDR TENURE

20 years

AVAILABILITY FOR HERNANDO COUNTY



SFWMD, C-44 Reservoir and Stormwater Treatment Area (STA) Project, Various Locations, FL

Project Manager. Home to more than 4,300 species of plants and animals, and supporting more than \$730 million in annual economic impact, the ecologically vital Southern Indian River Lagoon region has been inundated with freshwater and pollutants. To reverse the harm on these sensitive ecosystems, the South Florida Water Management District (SFWMD) and U.S. Army Corps of Engineers (USACE) are constructing the C-44 Reservoir and Stormwater Treatment Area (STA). As the first part of the Indian River Lagoon South (IRL-S) Restoration Project and part of the greater Comprehensive Everglades Restoration Plan (CERP), the C-44 STA project will reverse the damaging effects of pollution and unnaturally large freshwater discharges into these ecologically vital water bodies.

Peace River Manasota Regional Supply Authority, General Professional Engineering Services, Arcadia, FL

Project Manager and Principal-in-Charge. HDR has provided multi-disciplinary engineering services to the Authority under a general engineering services contract since May 2005. Over 50 work orders have been authorized under this contract. Assignments have included HDR services for water supply planning, wellfield development investigations, treatment process troubleshooting, transmission system hydraulic modeling, geotechnical engineering for stabilization, and design services related to master planning and Capital Improvement Plan (CIP) development. Katie has served in a variety of roles on this contract including providing daily project leadership for several design projects, as well as contract-level leadership to the Authority on behalf of HDR's commitment to high-quality delivery.

Bass Road Landfill Valuation, Osceola County, FL

Project Engineer. The County owned and operated a construction and demolition landfill and was considering selling it or outsourcing the operations. The HDR team provided a review of operational data and information, conducted an inspection of the facility, and provided recommendations to the County as to the value of the land landfill and revenue from the facility.

City of Atlanta North Fork Storage Tank & Pump Station, Atlanta, GA

Deputy Project Manager. HDR is providing design, permitting, and construction phase services for the North Fork Storage Tank and wet weather pump station. The project includes a 15-MG rectangular reinforced concrete equalization storage tank, 75-mgd influent pumping station, odor control, flushing/cleaning, and related appurtenances. The project also includes a diversion structure, dewatering structure, gravity/microtunneled 48- and 60-inch collector sewers, and an equipment control building.

Gainesville Regional Utilities (GRU), Professional Architectural and Engineering Consulting Services: 36-inch Force Main Condition Assessment, Gainesville, FL

Principal-in-Charge. HDR was tasked with evaluating GRU's existing force main along 34th Street and Archer Road, which consists primarily of 24-, 30-, and 36-inch ductile iron pipe. HDR reviewed as-built drawings, system information, past force main evaluation reports, etc. and developed a condition assessment work plan report. HDR made recommendations for the condition assessment of the force main and assist GRU in procuring a contractor to perform the condition assessment work. Katie supported the Project Manager and project delivery team in bringing the right expertise to the City and exceeding expectations in the field work associated with the condition assessment.



Kanishka Perera, PHD, PE

Planning and Engineering Services Lead

RELEVANCE TO HERNANDO COUNTY

- Award-winning engineer and HDR national leader in solid waste engineering
- Expertise in designing, permitting, and constructing waste systems throughout Florida, including the partial closure of the Class I landfill at the Northwest Waste Management Facility

Kanishka has extensive experience in landfill management, siting, permitting, design, closure, geotechnical analysis, stormwater analysis, coal combustion residue (CCR) management and construction oversight. Technical skills involve expertise in numerical modeling in landfill gas migration, environmental auditing, slope and seismic stability analysis, foundation analysis, MSE wall design, surface water modeling, exposed geomembrane cover design, statistical analysis of groundwater monitoring data and use of Geographic Information System (GIS) in various environmental applications for database development, spatial analysis and display all forms of geographically referenced information.

EDUCATION

PhD, Civil/Environmental Engineering, University of Calgary

ME, Environmental Engineering, Asian Institute of Technology

BS, Civil Engineering, University of Moratuwa

PROFESSIONAL REGISTRATIONS

Professional Engineer, FL, No. 67647

Professional Engineer, GA, No. PE035533

Professional Engineer, OH, No. 70230

INDUSTRY TENURE

22 years

HDR TENURE

16 years

AVAILABILITY FOR HERNANDO COUNTY

75%

Hernando County, Northwest Waste Management Facility, General Engineering Services, Brooksville, FL

Technical Lead. HDR provided solid waste professional engineering support for landfill closure, landfill leachate control and collection, landfill gas collection and control, and landfill master planning. HDR prepared an ERP modification application to modify the NWWMF's stormwater control. HDR combined all the existing ERPs into one facility-wide permit and addressed leachate drainage issues in Cells 3C and 3D sumps and applied for the FDEP permit modification and oversaw construction of sump repairs. HDR prepared annual landfill capacity reports and site life updates for the NWWMF and prepared an operations permit renewal application of the active Northwest C&D Disposal Facility in 2009 and 2010. HDR addressed the NWWMF's Clean Air Act-NSPS requirements for landfill gas generation. HDR worked with the USEPA and FDEP to provide a smooth permitting process for acquiring the facility's Title V air permit.

Hernando County, Landfill Master Plan Northwest Waste Management Facility, Brooksville, FL

Technical Lead. HDR prepared an update of the NWWMF master plan design. HDR worked closely with landfill staff to make the most efficient use of potential airspace. The plan encompassed the future of solid waste disposal activities for the 300-acre property including citizen's waste drop off areas, recycling, MSW disposal, C&D disposal and borrow soil. The plan included cost projects for expansions and phased closures and addressed concerns regarding geotechnical analysis and potential regulatory concerns.

Hernando County, Landfill Closure Northwest Waste Management Facility, Brooksville, FL

Technical Engineer. HDR assisted the County with the 19.5-acre partial closure for the NWWMF. The Phase I Landfill Closure project included the design and construction of a 40-mil LLDPE/geocomposite closure cap, two feet of cover soil from onsite sources, gabion downchutes and an expansion of the landfill gas collection system. The permit application included veneer slope stability analysis, road stability analysis, modifications to the stormwater control system, geocomposite drainage evaluation and technical specifications.

Volusia County, Tomoka Farms Road Landfill, North Cell Phase II Expansion, Area 3, Port Orange, FL

Senior Project Engineer. Preparation of construction level drawings for 12-acre cell expansion for the Class 1 landfill. The work involved design of base grades, liner tie-in, geosynthetic evaluation, liner system analysis, preparation of construction specifications, client meetings and coordination and preparation of Engineer's cost estimate.

Escambia County, Perdido Landfill Section 5 Expansion, Cantonment, FL

Senior Project Engineer. Project included the 65-acre lateral and vertical expansion of the Perdido Class I landfill using a Mechanically Stabilized Earth (MSE) berm and landfill mining. The landfill is expected to provide more than 20 years of capacity. The FDEP permit application included landfill grading and phasing drawings, landfill mining, liner system analysis, geotechnical analysis, wetland restoration, vertical expansion, HELP modeling and preparation of an engineering report. In addition, work involved design of stormwater control and conveyance structures and preparation of ERP application to be submitted to Northwest Florida Water Management District.



Tom Yanoschak, PE

Landfill Design & Engineering; Leachate Management

RELEVANCE TO HERNANDO COUNTY

- Performed QC for HDR's permit, construction design and CQA of the Northwest Waste Management Facility Class I landfill partial closure
- Provided engineering and planning services to clients in FDEP's Southwest District for over 20 years

Tom has nearly 40 years of experience, with expertise in landfill options evaluation and master planning, municipal solid waste and CCP landfill design and permitting. He has also provided engineer of record services during landfill construction projects, landfill closure projects, civil site design, geotechnical engineering, environmental projects, hydrogeological studies and water resources engineering.

EDUCATION

MS, Civil Engineering, North Carolina State University

Bachelor of Science, Civil Engineering, North Carolina State University

REGISTRATIONS

Professional Engineer, FL, No. 44200

Professional Engineer, GA, No. 25776

Professional Engineer, NC, No. 18887

Professional Engineer, SC, No. 15700

Professional Engineer, VA, No. 043303

PROFESSIONAL MEMBERSHIPS

American Society of Civil Engineers (ASCE), Member, 1985-2015

Solid Waste Association of North America (SWANA), Member, 2000-2015

American Academy of Environmental Engineers, Member, 2005-2015

INDUSTRY TENURE

39 years

HDR TENURE

18 years

AVAILABILITY FOR HERNANDO COUNTY

60%

Sarasota County, Phase II Class I Landfill Cell Design and Construction, Sarasota County, FL
Project Manager, Certifying Engineer. Provided Sarasota County with design, permitting, and bidding services associated with Phase II of the Central County Solid Waste Disposal Complex. Provided the County with Engineer of Record services during construction. The Phase II expansion consisted of approximately 54 acres of double synthetically lined Class I waste disposal area using a gravity cell drainage system that flows to a single leachate pump station. Phase II was designed for potential future leachate recirculation or bioreactor operations by considering increased waste densities and leachate generation in the design that would be associated with such operations. Included in this project is a 9,700 lf leachate forcemain.

Sarasota County BOCC, Phase I Closure Design, Permitting, Bidding, and Engineer of Record Services, Central County Solid Waste Disposal Complex, Nokomis, FL
Project Engineer/Engineer of Record. Provided Sarasota County with design, permitting, and bidding services associated with closure of Phase I of the Central County Solid Waste Disposal Complex in Sarasota, Florida. Project included a temporary final closure of the south slope using an exposed TPO geomembrane. Performed stability analyses demonstrating the suitability of the proposed final cover systems.

Winston-Salem Forsyth County Utilities, Hanes Mill Road Landfill, Winston-Salem, NC
Senior Project Engineer. Tom is responsible for the design and ongoing permitting of the expansion of the Hanes Mill Road Landfill using a MSE wall. This expansion, which will be the first MSE wall expansion permitted for a MSW landfill in North Carolina, allows a substantial increase in waste disposal capacity

at the facility with minimal increase in the lined landfill footprint. The MSE wall will be approximately 5,300 feet long and typically 40 feet high. The expansion allows continued operation of the facility while minimizing impacts to adjacent environmentally sensitive areas, existing infrastructure, and nearby communities.

Southeastern Public Service Authority, Landfill Expansion and Closure, Suffolk, VA
Senior Project Engineer. Tom assisted with the development of construction drawings and specifications for the 25 acre Cell VI, Phase 2 inward gradient expansion at the Regional Landfill. Tom was also responsible for preparing permitting and construction documents for the 106 acre Cells I through IV landfill closure as well as closure certification documents and annual post-closure inspections. He was also responsible for successfully permitting the future 56 acre Cell VII inward gradient landfill expansion. Currently, Tom is assisting with the preparation of permitting documents for the future 47 acre Cell VIII and 46 acre Cell IX of the landfill.

Sarasota County BOCC, Phase II Expansion Preliminary Design, Central County Solid Waste Disposal Complex, Nokomis, FL
Project Manager. Prepared preliminary design and analysis for various options for the Phase II landfill expansion to enable the Client to determine the best design elements to meet his needs. Provided recommendations that were incorporated within the full design and permitting project.

Sarasota County BOCC, Landfill Borrow Study, Central County Solid Waste Disposal Complex, Nokomis, FL
Project Manager. Evaluated construction and operational borrow soil needs over the lifetime of the 295 acre Class I MSW landfill which spans approximately 50 years.



Van Smith, PE

Landfill Design & Engineering

Van is a solid waste engineer with nine years of experience across the industry, including design and permitting of landfills, landfill closure, CQA, environmental monitoring sampling and reporting, hydrogeology, and preparation of construction bid packages (drawings and specifications).

EDUCATION

MS, Environmental Engineering,
University of Florida

BS, Environmental Engineering,
University of Florida

REGISTRATIONS

Professional Engineer: CO

INDUSTRY TENURE

9 years

HDR TENURE

< 1 year

AVAILABILITY FOR HERNANDO COUNTY

80%

Lee-Hendry Landfill Master Plan and Expansion Lee County, FL

Technical Lead. HDR is providing professional consulting and engineering services, including design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems.

DC Miles Jamison Expansion, Dorchester County, SC

Technical Lead. HDR is providing engineering and design services necessary for the preparation of plans, and cost estimates to implement infrastructure improvements and structural upgrades at the Miles Jamison Convenience Site.

North Dade County Landfill and Transfer Station Facilities Engineering, Miami-Dade County, FL

Technical Lead. HDR is providing continuing engineering services at the North Dade Landfill, Northeast Transfer Station, Central Transfer Station, and the 58th Street Closed Landfill.

Custer County Landfill, Custer County, CO

Project Manager. Van led the Engineering Design and Operations Plan (EDOP) preparation for the expansion of the Custer County Landfill. He was responsible for the design of excavation grades and final cover grades with constraints supplied by the client. Other tasks included various geotechnical and hydraulic calculations, supporting the landfill and stormwater collection control system, and compiling the permit drawing package.

Multiple Front Range Landfills, Waste Management, CO

Project Manager. Van led the modification of the Engineering Design and Operations Plan (EDOP) to include a composite liner design option consisting of a geosynthetic clay liner combined with a HDPE liner for three Waste Management Landfill Facilities on Colorado's Front Range. EDOP modification included a liner equivalency demonstration, a revised construction quality assurance plan, and revised permit drawings. The equivalency demonstration was supported by HELP modelling, MULTIMED model, and slope stability analyses performed for the composite liner system.

Teton County Transfer Station, Teton County, WY

Project Manager. Van successfully led the preparation of a lifetime permit document for the Teton County Transfer Station to reflect current operational practices, existing infrastructure, and to meet updated regulatory requirements.

City of Casper Balefill, Casper, WY

Project Manager. Van led the preparation of a conceptual design plan and cost estimate for remedial actions to address exceedances of landfill gas concentrations at the facility property boundary of the old landfill area of the City of Casper Balefill. Proposed remedial actions included an earthworks program to promote positive stormwater drainage across the site and a passive landfill gas vent trench at the property boundary.

San Luis Valley Regional Landfill, SLVRSWA, CO

Project Manager. Van led the update of the EDOP to reflect current design and operational practices at the San Luis Valley Regional Landfill. Other tasks included various geotechnical and hydraulic calculations supporting the landfill, leachate collection system, and stormwater control design.

Multiple Small Landfills, CDPHE, CO

Project Manager. Van prepared bid documents for the closure of six small municipal landfills in southeastern Colorado. Van also assisted with the field investigation to characterize site soils and site conditions at the landfill sites. Bid document preparation included the design of water balance final cover systems, the design of closure grading plans, compiling a construction level drawing package, and the preparation of technical specifications.

North Weld Landfill, Waste Management, CO

Project Engineer. Van assisted with an EDOP update for the expansion of the North Weld Landfill. He assisted with the design of liner grades and final cover grades with constraints supplied by the client. Other tasks included various geotechnical and hydraulic calculations, supporting the landfill and leachate collection system design, and compiling the permit drawing package.



Kelsey Heller, EI

Landfill Design & Engineering | Regulatory Permitting | Landfill Gas | Groundwater | Waste Composition Studies

Kelsey is a Civil EI and provides a balance of technical report writing, developing permit applications, environmental compliance and financial assurance for landfills, with time spent on-site, conducting Construction Quality Assurance (CQA). Kelsey has worked on a number of landfill gas system design, monitoring and construction projects, as well as landfill remediation gas system design, construction, operation and monitoring. She is also working with clients on innovative horizontal gas well system design and installation. Kelsey is currently working on landfill leachate treatment system options to enable on-site treatment and discharge.

EDUCATION

BS, Civil Engineering,
University of Florida

REGISTRATIONS

Engineer-in-Training: FL

INDUSTRY TENURE

1 year

HDR TENURE

1 year

AVAILABILITY FOR HERNANDO COUNTY

90%

Lee-Hendry Landfill Master Plan and Expansion Lee County, FL

Project Engineer. HDR is providing professional consulting and engineering services, including design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems.

Volusia County, Tomoka Farms Road Landfill, Phase 8 LFGCCS CQA, Port Orange, FL

CQA Observer. Kelsey provided CQA services for the Tomoka Farms Road Landfill Gas Control Collection System CQA Phase 8 for Tomoka Farms Road Landfill. The project included the installation of vertical gas collection wells, horizontal gas collection wells, and piping.

Volusia County, Tomoka Farms Road Landfill Leachate Wastewater Treatment Feasibility Study, Port Orange, FL

Project Engineer. HDR was selected to provide technical assistance to improve the quality of the current leachate pre-treatment process that is used to manage the Landfill's leachate generation. HDR also was tasked to update and submit the leachate pretreatment and discharge facility's wastewater treatment permit renewal to the FDEP. Santa Rosa County Central Landfill Passive Gas

Vent and Monitoring Probe Installation, Milton, FL

Project Engineer and CQA. HDR provided design, permitting, and construction certification for a landfill gas remediation system to control off-site migration of landfill gas.

Santa Rosa County Tier II Testing for Title V Air Permit, Milton, FL

Project Engineer. HDR conducted the Tier II Testing for Santa Rosa County Central Landfill as part of the 5-year Title V Permit renewal. As part of the project, Kelsey performed sample collection of landfill gas, adhering to the requirements in the FDEP permit requirements.

NON-HDR EXPERIENCE

Land Design, 2019 May-August, Intern, Orlando, FL

Assisted in the creation of several multifamily housing projects, aided in the design of roadways and layouts within select communities and researched permits with consideration of environmental policy. Enhanced AutoCAD skills through development of project layouts and on-site utilities plans. Developed skills in communication and interdisciplinary collaboration through a week-long charrette.

Meridian Engineering, LLC, 2017 May-August, Intern, Key West, FL

Developed various AutoCAD drawings for residential projects. Compiled and inputted specifications into the SpecsIntact database, software used for government projects. Attended multiple iterations of meetings to discuss the construction plans and witnessed the delegation of roles and responsibilities for each team member.



Hala Sfeir, PHD, PE

Regulatory Permitting | Landfill Gas | Leachate Management | Environmental Evaluations | Waste Composition Studies

Hala has 25 years of experience working on environmental engineering design and various environmental state and federal compliance projects. Assisted clients to navigate the SRF and grant processes by researching available funding options and preparing applications. Developed environmental guidelines for conducting waste characterization studies that have gained acceptance from the Florida Department of Environmental Protection and Massachusetts Department of Environmental Protection. Participate in several environmental Technical Advisory Groups. Also, an expert in the area of emergency response, site remediation, particularly with respect to the degradation of halogenated aliphatic compounds & provided support on auditing & compliance projects, decommissioning & decontamination projects, Phase I and Phase II investigations, site monitoring & corrective actions projects.

EDUCATION

Ph.D., Environmental Engineering, University of Central Florida

M.S. Environmental Engineering, University of Central Florida

B.S. Chemical Engineering, South Bank University, London, U.K.

REGISTRATIONS

Professional Engineer, 54083, FL

Envision Sustainability Professional, ISI, 2014

Project Management Professional PMP, 2015

INDUSTRY TENURE

25 year

AVAILABILITY FOR HERNANDO COUNTY

80%

Evaluation of Organic Waste Management, Hernando County, FL

Project Manager. The project investigated the potential of converting the existing organic waste program to one focused on renewable energy production and resource recovery, which is financially and environmentally beneficial to the County.

Waste Processing Alternatives, Hernando County, Florida

Project Manager. Responsibilities included applicability of the approach to Hernando County, evaluating the technical merits and the economic viability of the technology. The primary technologies evaluated were gasification & Material Recovery Facility with engineered fuels as the end product. Landfill Gas Generation Potential and Treatment Evaluation, Atlanta, GA, Miami Dade, Orange County, and Hernando County FL, Guam. Task Manager. Utilized a site-specific landfill gas generation model and evaluated landfill gas quality for pretreatment to meet local and national standards for direct connection to the natural gas grid.

Waste Composition Study, Broward County, Hernando County, Florida and Massachusetts

Project Manager. Implemented the state of Florida Guidelines for a Waste composition study by performing a comprehensive waste stream analysis that provided results with 90% confidence level and 10% precision to assist in a State-wide recycling program evaluation. Sewer I/I Rehabilitation, City of Sanford, Florida Project Manager. Evaluating the reduction in

Infiltration and Inflow (I/I) over several storm events using smoke testing, pump runs and the use of smart covers resulting from collection systems improvements and substantial reduction in river discharge. A comparison of wet season flow and I/I analysis was performed for all three storm events.

Evaluation of Leachate Pre-treatment, Collier County, Orange County and Hernando County, Florida

Project Manager. Evaluated leachate pre-treatment for the Solid Waste Facility to help meet local WWTP discharge limits and implemented a pilot study for pre-treatment feasibility.

Evaluation of the Impact of mixing Leachate and RO Reject Waste Streams for Deep Well Injection, Collier County, Florida

Project Manager. Performed treatability testing and chemical precipitation modeling to provide planning-level information on leachate management options. The treatability testing included aeration of the Master Lift Pump Station to evaluate removal of organics and ammonia - which may be considered to reduce surcharges if the leachate is to continue to be discharged to a publicly owned treatment works -and blending the leachate with reverse osmosis (RO) reject from the South County Regional Water Treatment Plant testing to evaluate the impact of mixing both waste streams with respect to increasing precipitation for deep well injection.



Chelsea Williams, EI

Regulatory Permitting & Reporting | Landfill Gas | Waste Composition Studies

RELEVANCE TO HERNANDO COUNTY

- Supports LFG permitting and reporting projects
- Provides assistance on landfill rate studies
- Experience with landfill gas sampling and analyses

Chelsea provides assistance to the solid waste engineering and planning group; she specializes in solid waste facility compliance and engineering. Areas of assistance include landfill permitting, report writing and production, landfill gas (LFG) collection calculations and evaluation, and water quality monitoring. Chelsea is located in the Orlando office and coordinates with Karam Singh on landfill gas collection projects in Florida and across the United States. Chelsea also supports Florida landfill permitting projects and has worked on municipal solid waste tipping fee rate studies.

EDUCATION

BS, Environmental Engineering, University of Central Florida

PROFESSIONAL REGISTRATIONS

EI Certification

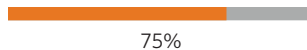
INDUSTRY TENURE

8 years

HDR TENURE

7 years

AVAILABILITY FOR HERNANDO COUNTY



Volusia County, Landfill Gas System Expansion, Volusia County, FL

HDR assisted the County Solid Waste Division to provide engineering support services for construction oversight and reporting for the gas system expansion. Chelsea was onsite to provide oversight and CQA services of work performed by the Contractor (SCS) and to provide assurance that the activities are performed in direct accordance with construction drawings and notes, and with the materials specified in the specifications and construction bid package. Chelsea also provided assurance that the Contractor is working in general accordance with well drilling, well repair and piping installation practices for LFG systems at Class I landfills in Florida. After field monitoring, Chelsea developed a construction certification report documenting the construction.

Hernando County, Landfill Expansion Phase 2, Hernando County, FL

HDR was retained by Hernando County to provide services for design and permitting of a new Class 1 waste disposal cell at the County's Northwest Waste Management Facility. Chelsea conducted field investigation pertaining to subsurface anomalies. Soil samples were observed in the field for karst conditions, gathered and sent to the lab for further testing.

Sarasota County, Landfill Gas System Expansion, Sarasota County, FL

HDR assisted the County Solid Waste Division to provide engineering support services for construction oversight and reporting for the gas system expansion. Chelsea was onsite to provide oversight and CQA services of work performed by the Contractor (SCS) and to provide assurance that the activities are performed in direct accordance with construction drawings and notes, and with the materials specified in the specifications and construction bid package. Chelsea also provided assurance that the Contractor is

working in general accordance with well drilling, well repair and piping installation practices for LFG systems at Class I landfills in Florida. After field monitoring, Chelsea developed a construction certification report documenting the construction.

S2Li, Lake County, Tier 2 NMOC, Lake County, FL

HDR was retained by S2Li to assist Lake County with Tier 2 site-specific sampling, analysis and reporting to prove that non-methane organic compound (NMOC) emissions are less than the threshold for an active gas collection and control system (GCCS) per state and federal regulations. Chelsea assisted with the development of the sampling plan, coordinated with the subcontractors, conducted landfill gas sampling at the Lake County Landfill, and prepared the final NMOC report.

MAS, SPSA GCCS Expansion, Suffolk, VA

HDR was retained by MAS to design future rehabilitation/expansion to the landfill gas collection and control system (GCCS) at the SPSA Regional Landfill. Chelsea assisted with the development of 60%, 90% and 100% design plans and specifications based on existing conditions, operational needs and effectiveness of the GCCS.

Hillsborough County, Consulting Engineers Report, Hillsborough County, FL

HDR was retained by Hillsborough County to conduct a Consulting Engineers Report to be included in the Point of Sale for issuance of financing vehicles for the development of the MRF. Chelsea performed an evaluation of the existing solid waste systems and prepared the draft Consulting Engineers Report.



Justin Raymond

CADD Support

RELEVANCE TO HERNANDO COUNTY

- HDR's Florida landfill design CAD leader with extensive expertise in Civil 3D CAD software
- Has supported landfill designs, LFG system designs, landfill storm water management designs, compost facility designs, and MRF layout designs

Justin has 16 years of CAD drafting experience and specializes in landfill design. His early career started in survey mapping and large-scale topographic and underground utility surveys at several different naval bases including locations in Jacksonville, FL at Mayport, NAS, and Blount Island; King's Bay Sub Base in Georgia; and Guantanamo Bay, Cuba. His most recent experience includes field calculations and topographic 3D surface modeling. At HDR, Justin has worked on countless landfill design projects, including Class I landfill expansion projects for Volusia County and Republic Services.

EDUCATION

ITT Technical Institute

INDUSTRY TENURE

16 years

HDR TENURE

6 years

AVAILABILITY FOR HERNANDO COUNTY

65%

Volusia County, Tomoka Farms Road Landfill and Plymouth Avenue Landfill Continuing Solid Waste Engineering Services, Port Orange, FL

CAD Technician. HDR provides full service solid waste engineering services to Volusia County. Justin has provided conceptual design of base and final grades, volume calculations, and has prepared figures for permit application. Other HDR services to-date include: financial assurance, NPDES, contamination assessment; compliance audits, LFG services, landfill closure design, and environmental compliance reporting.

Volusia County, Volume and Site Life Calculations, Tomoka Farms Road Class I and Class III Landfills, Port Orange, FL

CAD Designer. Project included volume and site life calculations for Tomoka Farms Landfill in Volusia County, Florida. Justin compared survey data three different timeframes to determine, annual airspace consumed and available airspace for landfilling

Sarasota County, Landfill Infrastructure and Permitting Library of Services, Nokomis, FL

CAD Technician. This solid waste library contract contains tasks that are assigned on rotational basis with other contracted firms within the library. Responsibilities include estimating facility emissions for database and an annual financial assurance cost estimate.

Cedar Trail Landfill Valley Fill Expansion, Republic Services, Bartow, FL

CAD Technician. Justin created the conceptual design for four different scenarios for the Cedar Trail Landfill expansion. The conceptual design included the final cover and base grades with volume calculations. Once the client chose a

final scenario, Justin prepared the final cover and base grades and produced all sheet files (site plan, leachate collection, cross sections, details, etc.).

Environmental Resource Permit (ERP) Modifications, Old Kings Road Class I and C&DD Landfills, Flagler County, FL

CAD Designer. CAD Designer for two separate ERP permit modification projects for two landfills in Flagler County, FL. These projects were necessitated by developing Recreational Park (RC) development at two adjacent closed landfills. The RC park features included remote airplane runway, new on-site structures, modifying existing pond to capture acreage for developing parking. Justin provided different configurations for site development, plan and cross sections for ERP modification applications.

Three Rivers Solid Waste Authority, Three Rivers Landfill Gas Collection and Control System Expansion, Aiken, SC

CAD Designer. Landfill gas system expansion design for the Three Rivers Landfill per NSPS requirements. Responsible for GCCS system layout, preparing design and bid drawing packages, and preparing well schedule.

City of Amarillo, Landfill Gas Collection and Control System Design, Amarillo, TX

CAD Designer. Landfill gas collection and control system design per NSPS requirements. Responsible for GCCS system layout, and preparing design drawing package.

Maplewood Recycling and Waste Disposal Facility, Amelia County, VA

CAD Technician. Justin was responsible for base and fill plan surfaces for the recycling and waste disposal facility design. He performed volume calculations and prepared sheet files for the plans.



Joel Miller, PE

Landfill Gas Control and Collection & LFGTE

RELEVANCE TO HERNANDO COUNTY

- HDR's leader in the design, construction, and operations of LFG control and collection systems
- Extensive experience in landfill gas to energy projects throughout Florida and U.S.
- Conducted wide-ranging LFG system optimization studies to capture a greater percentage

Joel has more than 22 years of engineering experience, and currently leads HDR's landfill gas practice. He has managed and provided technical expertise to a variety of solid waste and alternative energy projects, including landfill gas collection and control system design, landfill gas construction oversight, landfill gas monitoring and reporting, solid waste cell design, and solid waste cell closure. Joel's expertise includes landfill gas collection and control system design, landfill gas construction oversight, landfill gas monitoring and reporting, solid waste cell design, and solid waste cell closure. He is also well-versed in air and waste facility permitting, including Title V, NSPS/EG, NESHAP, GHG Reporting and other regulatory requirements.

EDUCATION

BE, Civil Engineering,
University of Texas Austin

REGISTRATIONS

Professional Engineer, Civil,
FL, No. 66477

Professional Engineer,
Environmental, TX, No.
103847

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of
North America (SWANA),
Member

INDUSTRY TENURE

25 years

HDR TENURE

16 years

AVAILABILITY FOR HERNANDO COUNTY

65%

Volusia County, Tomoka Farms Road Landfill, Port Orange, FL

Project Engineer and Task Lead. HDR permitted, designed and performed the engineering construction management for the horizontal expansion for Area 4 of the Class I Phase II North Cell Tomoka Farms Road Landfill in Volusia County, Florida. HDR provided the construction-level design, bid support services and engineering construction management services 4 and is currently performing Construction Engineering Management for the Area 4 construction. In 2017, HDR provided permit-level design and construction level engineering design services as part of the Area 4 expansion of the North Cell Phase II Landfill. Services for the landfill expansion included FDEP permitting, ERP permitting, wetland mitigation, storm water engineering design, construction level design, bid support services and landfill construction engineering field and management support.

Lee-Hendry Landfill Master Plan and Expansion, Lee County, FL

Project Task Manager. HDR is providing professional consulting and engineering services, including design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems. Joel also recently served as task leader for the NSPS/EG Tier 2 NMOC sampling at the site. This sampling is required to comply with the site's Title V permit and to determine if/when an active GCCS might be required. This project is ongoing, with final report due in early March

Landfill Gas Operations Support 2020, Charlotte County, FL

Project Engineer. HDR provided landfill gas collection and control systems operational

support to Charlotte County, including routine O&M, balancing, and reporting; landfill gas collection and control system evaluations, troubleshooting, and specialty monitoring/sampling; data and compliance management and reporting; and urgent construction, maintenance, repair, and emergency response. Florida Board of County Commissioners, Bee Ridge and Central County Landfill Gas to Energy Projects, Sarasota County, FL Project Manager. HDR has provided assistance with reviewing and recommending a developer for a landfill gas utilization project for the Bee Ridge Landfill and assisting the County in developing a landfill gas to energy project at Central County Solid Waste Disposal Complex (CCSWDC). Other services provided include Title V compliance reporting.

2020 Amarillo Solid Waste Services - Groundwater and Landfill Gas Compliance Reporting, City of Amarillo, TX

Project Manager. This multi-year project managing groundwater and landfill gas compliance includes the statistical analysis of groundwater sampling data for reporting to the regulatory agency. It requires ongoing studies, monitoring, and statistical analysis in accordance with applicable regulations. Groundwater sampling and reporting involves managing the detection and assessment wells, parameters and sampling protocols. HDR provided guidance through the entire process from Tier 2 analysis/reporting, through Design Plan submittal, to Phase 1 design of the GCCS - including permitting, bidding assistance, CQA, and start-up assistance. Additionally, HDR is responsible for Title V, NSPS/EG, NESHAP monitoring oversight and reporting.



Jeff Murray, PE

Leachate Management

RELEVANCE TO HERNANDO COUNTY

- Extensive work in evaluating onsite leachate treatment technologies
- Experienced in technology reviews with alternative waste processing facilities
- Provides design expertise in citizen drop off, HHW and convenience centers

Jeff has 26 years of experience and serves as HDR's National Landfill Services Practice Lead. His expertise includes planning, design, permitting and construction administration of municipal solid waste and industrial landfill expansions, landfill closures, post closure landfill re-use, and recycling and transfer station facilities. Jeff previously served a term as the International President for the Solid Waste Association of North America (SWANA) and remains active with the planning committee of the SWANA Landfill Technical Division. Jeff has been active with chapter and international governance of SWANA since 1998 and has assisted with the development of Manager of Landfill Operations (MOLO) certification course and post closure care and long-term management technical policies. In 2020, Jeff received SWANA's Distinguished Individual Achievement Award for his service to the solid waste industry and the landfill management technical division

EDUCATION

Master of Science, Civil Engineering, University of New Hampshire

Bachelor of Science, Mechanical Engineering, University of New Hampshire

PROFESSIONAL REGISTRATION

Professional Engineer, NC, No. 040654

Professional Engineer, VA, No. 048265

Professional Engineer, DE, No. 16345

Professional Engineer, ME, No. 10876

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of North America (SWANA), President, 2017

International Board Director Northern New England Chapter 2004-2013, International Officer, 2014

MOLO Certified 6/2008-present

American Academy of Environmental Engineers and Scientists (AAEES)

INDUSTRY TENURE

26 years

HDR TENURE

10 years

AVAILABILITY FOR HERNANDO COUNTY

50%

Lee-Hendry Landfill Master Plan and Expansion, Lee County, FL

Project Task Manager. Jeff provided quality control review and technical assistance for the design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems.

Landfill Services, Waste Management, Inc., Various Locations, VA

Senior Project Manager. Jeff has managed projects in support of four of the company's landfill facilities in Virginia. Work includes disposal capacity evaluation and capital planning, permit modifications, landfill cell and closure design, landfill gas collection design and construction administration. Recent projects include permit modification for a synthetic turf cover system, design and construction administration for over 60 acres of expansion, and closure design of 15 to 20 acre areas at three of the landfill facilities.

Southeastern Public Service Authority, Leachate Pump System Improvements, Suffolk, VA

Senior Project Manager. HDR assisted SPSA with developing a remedial strategy to remedy a significant accumulation of leachate on the liner system that included operational changes, system repairs and emergency pumping and hauling over a seven month period. As part of corrective action HDR designed a system-wide SCADA system to manage pump station operations and a permanent loadout station as a backup to the pumped forcemain connection. Construction of the SCADA and loadout station was completed in 2018 and early 2019. The new system provides real time monitoring of system operations, alarms and warnings, leachate elevations and will automatically shut down pump stations when a high level

alarm exists at downstream wet wells and storage lagoons.

Regional Landfill, Southeastern Public Services Authority, Suffolk, VA

Senior Project Manager. Jeff provides ongoing support of the authority's landfill and transfer station operations. The landfill receives 300,000 tons per year of ash residue from the Wheelabrator Portsmouth waste to energy facility and municipal solid waste from the seven communities in its service area. Work includes airspace evaluation, landfill master planning, permitting, post-closure monitoring, operational assistance, landfill gas engineering, facility evaluations and compliance monitoring. Work has also included assisting with permit and rezoning applications for the 100 acre expansion of the landfill. Recent projects include design build management for new administration, storage, maintenance and HHW facilities, bidding, permitting and construction administration for leachate evaporation facility, and permit modification for revisions base grading plan and final cover materials.

Ann Street Landfill, Leachate PFAS Pilot Study, Cumberland, NC

Senior Project Manager. HDR conducted a pilot study for the removal of PFAS from the MSW landfill leachate using a froth flotation technique developed by our industrial water treatment team. The study demonstrated greater than 98% removal of PFOA and PFOS and other long chain PFAS compounds and good removal of other shorter chain PFAS compounds present in the leachate. The concentrated PFAS residue was less than 1% of the total leachate treated. HDR is assisting the County with loan and grant applications and anticipates design for full scale implementation in 2023.



John Catches, PG

Groundwater | Environmental Evaluations & Stabilization Studies | Subsurface Investigations & Materials Testing

RELEVANCE TO HERNANDO COUNTY

- Lead hydrogeologist with extensive experience in Florida geologic conditions
- Familiar with hydrogeologic conditions through work in neighboring Counties
- Experience with FDEP, FDOT and SWFWMD

John has been involved with planning and implementing a wide variety of environmental projects including contamination assessments, geological and hydrogeological investigations, contaminant remediation, and solid waste permitting. His consulting project experience has involved working with several regulatory agencies, including the Northwest, Northeast, Southwest, and Central districts of the FDEP; most of the Florida Water Management Districts — Northwest Florida WMD, Suwannee River WMD, Southwest Florida WMD, and the St. Johns River WMD; the Florida Department of Health; U.S. Environmental Protection Agency; and the Army Corp of Engineers. John is familiar with interpreting and applying State and Federal Regulations, and he has attended several FDEP rule-making workshops during the development of Chapter 62-780 and revisions of Chapter 62-701.

EDUCATION

MS, Geology, University of Florida, 1997

AA, Engineering (Pre-engineering), Santa Fe Community College FL, 1989

REGISTRATIONS

Professional Geoscientist, FL, No. PG2203

Professional Geoscientist, AL, No. PG1342

Professional Geoscientist, GA, No. PG001674

Professional Geoscientist, MS, No. PG 0853

INDUSTRY TENURE

30 years

HDR TENURE

13 years

AVAILABILITY FOR HERNANDO COUNTY

70%

Hillsborough County Landfill Expansion, Lithia, FL

Project Hydrogeologist. John helped to prepare and submit a permit application for additional cells at this site. He reviewed the groundwater-monitoring plan used prior to the Cell 8 expansion and prepared a GWQMP evaluation. The submittal included recommendations for upgrading the GWQMP. In addition, John continued to work on Hillsborough County Landfill projects as a QA/QC reviewer.

Lake County, Lady Lake Landfill, Astatula, FL

Project Geologist. A trench to intercept landfill gas was installed for this project. Landfill gas was measured and concentrations were recorded at 18 locations, once a month for three consecutive months. A report that included as-built drawings and a location map was submitted to Lake County and the FDEP. John provided QA/QC review for this project.

Leon County Solid Waste Facility, Tallahassee, FL

Sr Project Manager/Sr Scientist. HDR worked on a well installation and well abandonment project for Leon County. A minor permit modification was conducted in 2012 to revise the facility's groundwater monitoring plan (GWMP). This project required abandoning wells that were no longer required in the revised GWMP, and installing one additional well to complete the revised GWMP. Approximately 40 wells, including perched aquifer wells, Floridan aquifer wells, RAP wells, MOP wells, and air-spargers were abandoned. John designed and produced the specifications for the double cased wells installed into the Floridan aquifer.

Ocilla/Comp Monitoring and Reporting, Ocilla/Irwin County, GA

Project Manager. This project required semi-annual groundwater sampling and reporting and quarterly landfill gas monitoring and reporting. John prepared the project plan and scope of work for groundwater, surface water, and landfill gas monitoring in accordance with the Rules of the State of Georgia. He worked on this site for approximately 12 years, during which he installed groundwater monitoring wells and landfill gas vents and performed contamination assessment work. His work has resulted in the reduction of cost to the client through the reduction of sampling frequency and sampling locations.

New River Solid Waste Association (NRSWA), Lake Butler, FL

Project Geologist. The New River Landfill required groundwater, surface water, leachate, and gas monitoring and laboratory analysis and reporting services John provided QA/QC review and was the Professional Geologist responsible for this project.

Ocilla/Comp Monitoring and Reporting, Ocilla/Irwin County, GA

Project Manager. This project required semi-annual groundwater sampling and reporting and quarterly landfill gas monitoring and reporting. John prepared the project plan and scope of work for groundwater, surface water, and landfill gas monitoring in accordance with the Rules of the State of Georgia. He worked on this site for approximately 12 years, during which he installed groundwater monitoring wells and landfill gas vents and performed contamination assessment work. His work has resulted in the reduction of cost to the client through the reduction of sampling frequency and sampling locations.



Frances Cheung, PE

Subsurface Investigations & Materials Testing

Francis has 37 years of consulting experience and is responsible for budgets, schedules, and outcomes of major projects; supervision of a number of engineering staff and technicians; management of projects related to solid waste disposal, groundwater monitoring, assessment and corrective actions, groundwater impact studies, soil and groundwater remediation, permitting for waste disposal facilities, site and waste characterizations, and groundwater flow and contaminant transport modeling; performance of contamination assessments, feasibility studies, remedial designs, remedial actions, and post-remediation monitoring for waste disposal facilities, including a number of Superfund sites in Florida; and preparation of proposals and reports. He has also managed many construction quality assurance (CQA) programs for construction and closure of waste disposal areas.

EDUCATION

MS, Civil and Environmental Engineering (Geotechnical), Cornell University

BS, Civil and Environmental Engineering, University of Wisconsin

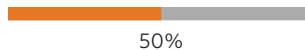
REGISTRATIONS

Professional Engineer: FL, LA, NC

INDUSTRY TENURE

37 years

AVAILABILITY FOR HERNANDO COUNTY



Northwest Waste Management Facility Cell 1 and 2 Vertical Expansion, Hernando County, FL

Lead Geotechnical Engineer for a geotechnical evaluation of the proposed vertical expansion of Cells 1 and 2, which indicated that the north side slope of the landfill would have to be buttressed to provide an acceptable factor of safety for stability of the vertical expansion. The geotechnical evaluation included cone soundings through the landfill to establish the in situ shear strength of the refuse which was employed to conduct the required slope stability analysis. Frances also directed the CQA program for construction of the soil buttresses and an airspace evaluation for the vertical expansion.

Northwest Waste Management Facility Cell 3 Expansion, Hernando County, FL

Lead Geotechnical Engineer for support of the permit application for the Cell 3 expansion of the Class I landfill expansion. He also designed the landfill liner system, which included a geotextile reinforcing layer to provide additional support over sinkholes that could potentially develop in the underlying limestone.

Southeast Landfill Hillsborough County, FL

Project Manager for many geotechnical engineering studies of the Hillsborough County Southeast Landfill, which was constructed directly above a former phosphatic clay settling area. The work involved performance of geotechnical investigations of the soft waste phosphate clay, performance of slope stability analyses of the landfill design sections, and review of the filling schedule for the landfill.

WCA Landfill, DeSoto County, FL

Project Manager to perform geotechnical analyses and to assist in the design and permitting of the bottom liner system for the 60-acre Phase II landfill expansion at this private C&D landfill in DeSoto County. He also served as the Project Manager to provide construction quality assurance (CQA)

services during construction of the first 16 acres of the Phase II landfill expansion, which included earthwork activities and geosynthetic material installations.

Osceola County Southport Road Landfill, Osceola County, FL

Project Manager associated with liner design and construction for a number of landfill cells at the Osceola County Southport Road Landfill. The work involved performance of landfill slope stability and foundation bearing capacity analyses, performance of interface stability analyses between different liner components, design and testing of bottom liners, preparation of construction quality assurance plans for liner system construction, and implementation of construction quality assurance inspection and testing program during bottom liner installation and final cover construction.

Lake County Astatula Landfill, Lake County, FL

Project Manager for a number of geotechnical projects at the Lake County Astatula Landfill, including design and construction of an infill segment between Phases IIA and IIB, closure of the north slope of Phase IIB, performance of slope stability and settlement analyses for a proposed C&DD landfill unit on top of the Phase I landfill cell.

Pinellas County Landfill, Pinellas County, FL

Project Manager in evaluating the stability of the proposed landfill section in Pinellas County Landfill. He also directed implementation of the construction quality assurance program during installation of the soil-bentonite cut-off wall at the landfill site.

Orange County Landfill, FL

Project Manager associated with construction quality assurance for the bottom liner system for Cell 8 and closure of Cells A through K at the Orange County Landfill. He was also the Project Manager for groundwater flow modeling of the existing Orange County Landfill property and an adjacent 3,500-acre expansion area.



Keith Howard, PE

Composting & Anaerobic Digestion | Recycling Facilities Design & Engineering | Solid Waste Rate Studies | Master Planning | Contractual Support

RELEVANCE TO HERNANDO COUNTY

- On-the-ground experience operating a large solid waste management system in Florida
- Nationally recognized in composting yard waste and sewage sludge into a salable product
- Valuable recent experience in managing a MRF

As a recognized leader in the Florida solid waste market, Keith brings a unique mix of experience both as a public agency lead and a consultant. Most recently, Keith was the director of Lee County's solid waste division, where he was responsible for a \$70-million-plus waste operation. Prior to his time at Lee County, Keith spent six years as the engineering manager for the Municipality of Anchorage, where he was responsible for the management, design and construction of their Cell 7 expansion; he also spent seven years as a solid waste consultant in the Chicago area managing landfill development, expansion and permitting related projects in the midwest. He is actively involved in the waste community and is serving as the Florida SWANA Past President.

EDUCATION

MBA, Business Administration, University of Alaska Anchorage, 2008

BS, Civil Engineering, University of Illinois, 1991

PROFESSIONAL REGISTRATIONS

Professional Engineer, FL, No. 66031

PROFESSIONAL MEMBERSHIPS

SWANA, Florida Chapter, Vice President

INDUSTRY TENURE

26 years

HDR TENURE

<1 year

AVAILABILITY FOR HERNANDO COUNTY

60%

Bay County Engineering Division, Solid Waste Management System Business Evaluation | Panama City Beach, FL

Technical Advisor. HDR reviewed financial and operating data for the System and defined the following scenarios for the Bay County Solid Waste Department: 1) Suspend WTE operations, 2) Suspend WTE Operations at the expiration of the service contract, and 3) Continue WTE operations indefinitely. HDR identified and reviewed the potential complexities related to the project and its impact on stakeholders. A walk through of the waste to energy plant was also conducted to review and observe operations and general condition of the plant.

Bay County Engineering Division, Waste-to-Energy Facility Decommissioning Phase 1 | Panama City Beach, FL

Senior Technical Advisor. Bay County requested HDR assist with executing the waste-to-energy facility decommissioning process, including developing a demobilization plan, demobilization implementation, demolition RFP development and construction administration.

Broward County, Scalehouse Expansion Study | Broward, FL

Senior Project Engineer. HDR evaluated the scale and scale house operations to determine how many scales are suitable for the current and future operations. The project included an evaluation of current and projected future customer volume and type, design recommendations and a conceptual design that was used to identify the design and permitting requirements. HDR also performed an evaluation of the technology available for scale automation. Cost estimates for the equipment, demolition, construction, and permitting were provided.

Lee County, Compost Facility Construction | Fort Myers, FL

Project Manager. This project included installation of nine acres of asphalt pavement, high pressure/high volume water distribution system and six single-span fabric covered buildings (166' x 120').

Lee County, Materials Recycling facility Retrofit to Single Stream | Fort Myers, FL

Project Manager. Worked with HDR to solicit and develop the conversion of the county's dual stream MRF to single stream. Project included equipment installation and performance testing, building expansion and equipment foundation installation.

Lee County, Ash Monofill (Class I) Development | Fort Myers, FL

Project Manager. This project included a 16 acre, Class I Ash Monofill. The project required extensive coordination with the County's consultant to evaluate the best design approach, and accordingly develop a Class I Ash Monofill. Along with traditional design components, this project also required extensive land clearing, electrical feed line coordination with local utility, stormwater control and leachate forccmain handling systems. While evaluating various options, the project team opted to suppress the sump, leachate lines and a portion of the baseliner beneath the seasonal high groundwater table. As Project Manager, Keith ensured that the project (design options evaluation, design/permitting and construction) was accomplished within the anticipated schedule and budget by working closely with the project team.



Tim Raibley, PE

Composting & Anaerobic Digestion

RELEVANCE TO HERNANDO COUNTY

- Provides cutting edge experience in organics and anaerobic digestion
- National leader in compost system planning, design, construction, and operations
- Proficient in efficiency evaluations, economic analyses, and procurement

Tim has more than 43 years of environmental and civil engineering experience, including extensive solid waste diversion based facilities including organics/composting, single stream recycling, anaerobic digesters, solid waste transfer, materials recovery and recycling facilities. He has provided engineering and development, permitting and design, operations efficiency evaluations, economic analysis, and procurement services ranging from conceptual planning, fatal flaw analysis, peer review, design of working plans, and specifications to construction management and construction quality assurance.

EDUCATION

BS, Civil Engineering,
California State University,
San Jose, 1980

REGISTRATIONS

Professional Engineer, CA,
No. 35222

Professional Engineer, WA,
No. 44393

INDUSTRY TENURE

43 years

HDR TENURE

34 years

AVAILABILITY FOR HERNANDO COUNTY

60%

Yard Waste/Organics Processing Procurement, Monroe County, FL

Tim served as the technical advisor to the County on this procurement assistance project. As part of this effort, the HDR team reviewed a draft RFP document developed by County staff, and developed an outline for the RFP including procurement approach options, which could include a one-step process, two-step process, and varying degrees of specificity (a one-step process with weighting factors was ultimately used); technology considerations, which included chipping/mulching; aerobic digestion (composting, in-vessel); anaerobic digestion; incineration; and emerging technology; evaluation criteria considerations, which included policy criteria and technical criteria, and strategies for apples to apples comparisons. The HDR team assisted the County in evaluating responses to the RFP, including assistance with understanding different technologies proposed, and how evaluation criteria should be applied. After the County Commission approved moving forward with due diligence and contract negotiations with the vendor that proposed gasification technology, HDR was again retained to assist in due diligence evaluations.

Procurement of Anaerobic Dry Fermentation Digestion Technology and Composting for Commercial Organics, City of San Jose, CA

Tim provided support to the City of San Jose in the analysis of various organics processing technologies as a part of their Commercial Waste Stream Re-design effort. In order to reach a City green vision goal, HDR assisted the City in seeking an exclusive franchise provider to construct and operate an aggressive organics management system. HDR assisted the City in crafting an RFP and then reviewing responses to private sector proposals to construct and operate various types of Organics Processing facilities under the

exclusive franchise incentive program. The RFP included incentives to encourage innovative and aggressive waste diversion solutions from the private sector, including incentives for waste handling that includes conversion technologies as an organics processing option. Our analysis included a detailed review of the proposals which were tailored to accommodate various levels of contamination in the organics stream.

27th Ave. Compost Facility Planning, Design and Economic Study, City of Phoenix, CA

Tim served as the project manager for HDR who was retained to evaluate the technical and financial viability of developing a compost facility that will replace an existing chip/grind operation which is a part of the existing waste management system. The city envisions expanding its commercial and residential waste collection services to include food waste collection in the coming years. In advance of those programs, the city desired to prepare the infrastructure to be ready to accommodate these more challenging feedstock materials. The HDR study included various compost treatment methods to accommodate increasingly putrescible feedstock materials, as well as address other variables that are relevant to the analysis of the facility. The current throughput is 50,000 tons of green/yard waste and the city expects the expanded food waste program to increase the throughput tonnage to 90,000 tons per year. As a part of the study, HDR explored several possible sites for the new facility concluding the existing chip/grind operation was preferable. As a part of this work, HDR also prepared an interim facility design plan to relocate the current chip/grind operations to allow the current area to be developed into the future compost facility. HDR also assisted in the coordination of permits required for the facility which for this location. The project development is anticipated to occur in 2014.



Bob Rella, PE

Transfer Station Design & Engineering

RELEVANCE TO HERNANDO COUNTY

- HDR's technical leader in solid waste transfer station design
- Provides expertise in a wide range of MRF options
- Extensive background designing innovative solid waste management and recycling facilities in the U.S.

Bob serves as HDR's National Practice Leader for Solid Waste Facilities. In this role, he provides technical oversight and support on solid waste and facilities projects performed by HDR offices nationally. His involvement includes establishment of project teams, technical review, quality control, production, client coordination and project execution. Bob has more than 25 years of experience in the solid waste industry, and has been involved in the planning, permitting, design, construction and monitoring of waste-to-energy facilities, landfills, transfer stations, materials recovery facilities (MRF), drop-off and convenience centers and composting facilities.

EDUCATION

MS, Civil Engineering (Geotechnical/Civil Engineering), Manhattan College

BS, Civil Engineering, Manhattan College

REGISTRATIONS

Professional Engineer, FL, No. 65455

Professional Engineer, VA, No. 0402054748

Professional Engineer, SC, No. 18139

Professional Engineer, NC, No. 22474

Professional Engineer, PA, No. PE-042250-R

Professional Engineer, GA, No. PE030238

Professional Engineer, NY, No. 066835

Professional Engineer, NJ, No. GE-37329

Professional Engineer, MD, No. 21677

Professional Engineer, IN, No. PE10707595

INDUSTRY TENURE

44

HDR TENURE

34

AVAILABILITY FOR HERNANDO COUNTY

65%

East Pasco Transfer Station Expansion, Dade City, FL

Design Lead. HDR was responsible for the design of the East Pasco Transfer Station in Dade City, FL. The design includes an approximate 150% increase in receiving area/tip floor, architectural integration with the existing transfer station, and accommodation for the existing load out tunnel as well as associated site improvements and ancillary features such as storage bunkers and added office space. Civil, architectural, structural, mechanical, electrical, plumbing and fire safety disciplines were involved in the project.

Orange County, Northwest Transfer Station, Orange County, FL

Project Director. HDR was selected by Orange County for the site selection, permitting, engineering and design of the proposed transfer station facility. Efforts included the development of screening criteria, researching property availability, application of screening criteria, site selection and recommendation, population data review, waste generation rate and material quantity analysis.

SPSA, Permitting, Design, Construction Administration, Environmental Consulting and Field Services, Suffolk, VA

Project Principal. Landfill development and operations, steam plant modifications and operations, and RDF facility modifications and operations. Projects include landfill expansion and development, transfer station upgrade and maintenance, combustion facility maintenance and retrofit, and new facility design and construction.

Roanoke Valley Resource Authority (RVRA), Smith Gap Regional Landfill, Tinker Creek & Salem Transfer Stations, Roanoke, VA

Project Manager. HDR was retained by RVRA to assist with the preparation of

permit applications and design drawings for improvements to the residential services areas at the Tinker Creek Transfer Station in Roanoke, Virginia. The transfer station accepts delivery of residential and commercial wastes from communities in Roanoke County and transfers the waste via rail containers for disposal at its Smith Gap secure landfill. The facility includes a drop-off area for residents to manage recyclable materials, household hazardous waste, bulky wastes, and municipal solid waste. RVRA desired to expand the existing residential drop off area to improve its capacity and function with the provision of retaining walls, canopy roof, and roll-off containers. RVRA also desired to add an automated inbound truck scale, bypass lane, complete modifications to the existing scale house facility, and increase on-site parking.

Winston-Salem Solid Waste Planning, Permitting, Design, Construction

Administration, Winston-Salem, NC
Project Principal. Overseeing all project services associated with the implementation of expansion of the City's solid waste disposal facilities. HDR's efforts include planning, permitting, design, construction monitoring, financial analysis, and feasibility evaluations.

City of Greensboro, Greensboro Transfer Station, Greensboro, NC

Project Director. Mr. Rella assisted HDR's Project Manager in the development and implementation of the City's overall solid waste management plan, including the development and design of a new 900 tpd (24,000 SF) municipal solid waste transfer station. This effort included planning, permitting, design, construction monitoring, financial analysis, and feasibility evaluations associated with solid waste collection and disposal.



Josh Miller, PE

Transfer Station Design & Engineering

Josh has extensive experience in the waste industry including energy-from-waste, architecture, industrial and water/wastewater. His project roles have included Resident Project Representative (RPR) for site construction and startup activities of various facilities. He has been involved in many projects involving coal- and gas-fired power plants and waste-to-energy facilities, including construction and startup monitoring, implementation of EPC procurements of facilities, design review, equipment performance testing, and international travel. He also has experience in engineering and design, preparation of general arrangements, cost estimates, preliminary site layouts, flow diagrams, pipe stress analysis, power plant cycle performance analysis, and shop inspections of mechanical equipment.

EDUCATION

BS, Mechanical Engineering,
University of Nebraska

REGISTRATIONS

Professional Engineer:
FL, NE

INDUSTRY TENURE

19

HDR TENURE

15

AVAILABILITY FOR HERNANDO COUNTY

70%

Household Hazardous Waste Facility Drum Storage Building, Sarasota County, FL

Project Manager. HDR provided design and permitting services for a second drum storage building located at the Bee Ridge Chemical Collection Facility. The team's responsibilities included review of the existing proposed design, permitting assistance, bidding assistance, and construction administration.

East Pasco Transfer Station Expansion, Dade City, FL

Project Manager and Senior Engineer. HDR was responsible for the design of the East Pasco Transfer Station in Dade City, FL. The design includes an approximate 150% increase in receiving area/tip floor, architectural integration with the existing transfer station, and accommodation for the existing load out tunnel as well as associated site improvements and ancillary features such as storage bunkers and added office space. Civil, architectural, structural, mechanical, electrical, plumbing and fire safety disciplines were involved in the project. HDR is currently providing construction oversight services.

Independent Consultant for Resource Recovery, Lee County, FL

Senior Engineer. HDR was the consulting engineer for the 636-tpd expansion of the existing 1,200-tpd Resource Recovery Facility. Activities included project design services, independent studies and reports, monitoring Covanta's performance as construction manager, an engineer's feasibility report in support of project financing, on-site construction administration support services, opinions and dispute resolution regarding erection contractors, permitting and regulatory compliance assistance, monitored project budgets and schedules, jointly developed an acceptance test procedure with Covanta, and monitored acceptance tests. HDR continues to

perform ongoing operations and maintenance monitoring and manage regulatory and permit compliance programs for the expanded 1,836-tpd facility.

Resource Recovery Facility Operations and Maintenance Engineering Services, Hillsborough County, FL

Project Engineer. HDR is providing ongoing operations and maintenance services at the Hillsborough County Resource Recovery Facility. The facility is a regional leader in the production of energy from waste and is a key element of the County's renewable energy portfolio.

Fire Suppression Tank Replacement, Sarasota County, FL

Project Manager. HDR to provide engineering services associated with the replacement of the fire suppression tank at the Central County Solid Waste Disposal Complex (CCSWDC). Engineering services included preparation of construction plans and specifications, and construction administration implementation. HDR also provided support for on-site activities associated with contractor demolition, installation of the new fire water tank, and equipment commissioning.

Hennepin Energy Resource Center Extraction Line Analysis, Minneapolis, MN

Project Engineer. Josh performed a pipe stress analysis of a plant modification that included an additional steam extraction line (off the turbine 1st stage extraction) and new non-return valves. Code stresses were checked against allowable limits. Field verification was also conducted to collect information on pipe takeoffs, supports, valving, and other design parameters. A formal report was created to address the impacts of the extraction line and addition non-return valves.

**EDUCATION**

B.A. Economics &
International Business
Rollins College

REGISTRATIONS

CGFM - Certified
Government
Financial Manager

INDUSTRY TENURE

17

HDR TENURE

17

**AVAILABILITY FOR
HERNANDO COUNTY**


60%

Theirry Boveri, CGFM

Solid Waste Rate Studies & Financial Pro Formas

Theirry brings a client focused approach with a strong desire to provide value and client satisfaction. Theirry has performed numerous revenue sufficiency and cost of service utility and cost of service studies for over 40 local governments, has prepared financial feasibility and disclosure reports totaling over \$1 Billion in debt proceeds issued through the traditional bond market, state revolving loans. Theirry has provided solid waste consulting services on behalf of Florida Counties of Hernando, Hillsborough, Lee, Manatee, Martin and Sarasota and the Babcock Ranch Community Development District. Theirry's responsibilities were associated with the evaluation of solid waste system operations, financial compliance, regulatory closure compliance (financial assurance), contractual arrangements (e.g., evaluation of collection hauler contracts), cost of service and recommendations concerning solid waste assessments and/or fees charges for collection and disposal services. Theirry has also consulted on issues related to municipal interlocal agreements, bond resolution development, procurement for alternative disposal and various marginal and cost benefit analyses.

Hernando County, FL

Mr. Boveri has performed various services for the County, beginning with the preparation of a financial forecast and revenue sufficiency analysis in 2014 with annual updates since then. The study included development of an interactive model of the landfill and disposal facilities encompassing an eleven-year planning horizon (current budget year plus a ten-year forecast). The specific Study tasks have included:

- Compilation of historical solid waste deliveries received by the County, by waste type, and the projection of solid waste tonnage to estimate tipping fee revenues
- Preparation of forecast of residential/dwelling unit and commercial customer growth and waste generation rates to estimate solid waste generation for disposal and to estimate disposal revenue from residential solid waste assessments and commercial tipping fees
- Projection of capacity availability in active landfill cells, the timing of the need to expand the disposal facility, and the corresponding funding of a future cell construction reserve recognizing the landfill disposal capacity utilization
- Preparation of change in landfill closure and long-term liability for expense recognition and funding considerations
- Development of an operating, capital funding, and financial plan and the determination of disposal fee adjustments to satisfy the objectives of the plan
- Development of financial model documentation for County staff internal use

In addition to the annual sufficiency study, Mr. Boveri has also assisted in evaluating the rate and financial impact associated with alternative processible waste disposal options being proffered by third parties in 2015 and

2017. PRMG worked with the County and the alternative disposal provider to evaluate cost differences due to the potential changes in waste disposal options, agreements for service in support of the ongoing financial evaluation, and assisted County staff in the presentation of the alternative waste disposal option to the Board of County Commissioners.

Finally, as part of our general services offered to the County, Mr. Boveri has performed various economic evaluations to assess the average and marginal cost of landfill disposal per ton.

Hillsborough County, FL

Mr. Boveri has performed annual solid waste forecasts for the County since 2011, including retail and wholesale rate setting, cost / benefit evaluations, determination of average and marginal cost of operation, support for credit rating agency surveillance and feasibility analyses. As it relates to review of contract operations, Mr. Boveri was responsible for:

- Modeling and forecasting contracted operating costs;
- Independent review associated with calculation of allowable indexing to various contracted service rates for collection, facility operations and waste disposal; and
- Development of a proposed contracted services pass-through provision to the solid waste assessment and tip fees.

Mr. Boveri also assisted the County with the recent issuance of the Solid Waste and Resource Recovery Facility Bonds Series 2016 A/B in the combined principal amount of approximately \$114 million. Mr. Boveri has also assisted the County with review of contracts and validation of compliance with application of indexing provisions to charges by the County's solid waste franchise haulers.



John Carlton, PE, BCEE

Master Planning

RELEVANCE TO HERNANDO COUNTY

- HDR's national leader in solid waste management master planning
- Provides expert services in rate studies and procurement projects

John has more than 33 years of solid waste management experience as a consultant and in executive positions for public-sector authorities. He has served as Project Director and Project Manager for landfill baseliner and closure designs, landfill and composting operator procurements, solid waste management plan development, waste-to-energy, and landfill photovoltaic projects. John also has experience with environmental site assessments, environmental permitting, energy audits, energy conservation retrofit measures, and water conservation and wastewater planning.

EDUCATION

BS, Civil and Environmental Engineering, Duke University

REGISTRATIONS

Professional Engineer, FL, No. 84409

Professional Engineer, VA, No. 0402055578

Professional Engineer, MD, No. 47291

Professional Engineer, NJ, No. 24GE03976100

American Academy of Environmental Engineers Board Certification in Solid Waste Management

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of North America (SWANA), Planning and Management Division, Awards Committee, 2013 - Present

SWANA, New Jersey Chapter, Director, 2004 - Present

American Academy of Environmental Engineers, Solid Waste Committee, 2011 - Present

INDUSTRY TENURE

33 years

HDR TENURE

5 year

AVAILABILITY FOR HERNANDO COUNTY

60%

Metro Waste Authority, Materials Recovery Facility (MRF) Feasibility Study, IA

Project Manager. John led the feasibility study for the development of a MRF that would accept and process Iowa's most comprehensive curbside recycling program. The study developed multiple operating scenarios for evaluation purposes and projected recycling volumes over a 20-year period. The study also evaluated a proposed site, reviewed commodity markets, developed capital and operating cost estimates, and analyzed potential project risks.

Madera County, Solid Waste Management Consulting Services, Madera County, CA

Project Manager. John provided numerous consulting services to Madera County, including operations reviews, financial modeling and rate recommendations, development of an organics management plan, negotiated amendments to landfill and transfer station operating contracts, and franchise collection agreements. He is considered an extension of staff and manages monthly operations meetings, quarterly financial reviews, and an annual solid waste workshop with the Board of Supervisors. John is currently working with the County to develop policies, ordinances, franchise agreement amendments, rate structures, and programs to help the County comply with Senate Bill 1383.

Lee County, Long-Term Integrated Waste Management Plan, Lee County, FL

Project Manager. John helped lead the development of the Lee County Long-Term Integrated Waste Management Plan. This comprehensive plan sought to provide guidance for the management of the County's solid waste over the next 20 years. Project elements included a waste characterization study, an evaluation of the County's current system, a review of regional systems and

national best practices, an evaluation of available technologies, a needs forecast, and an analysis of options.

Aiming for Zero Waste: A Vision for Sustainable Materials Management in Montgomery County, Montgomery County, MD

Technical Reviewer. John provided quality control reviews in the development of Montgomery County's zero waste strategic plan. The plan reviewed existing processing facilities, enhancements to the current diversion and recycling system, benchmarking and best practices, and considered options for the collection and disposal of "what's left".

Mechanisms to Implement and Support Pilot Recycling Initiative Program, New York, NY

Technical Reviewer. John provided quality control reviews of a study for DSNY that explored options to improve diversion of designated recyclable materials in public housing units managed by the New York City Housing Authority (NYCHA). Multiple options were evaluated for incentivizing recycling, and results were expressed in terms of diversion potential, community impacts, and costs.

Materials Recovery Facility Feasibility Study, Des Moines, IA

Project Manager. John managed the feasibility study for the development of a MRF that would accept and process Iowa's most comprehensive curbside recycling program. The study developed multiple operating scenarios for evaluation purposes and projected recycling volumes over a 20 year period. The study also evaluated a proposed site, reviewed commodity markets, developed capital and operating cost estimates, and analyzed potential project risks.

3 FIRM/TEAM CAPABILITIES

HDR: The Best Team for the Job

We have solved many challenges nationally and locally for municipal clients in Florida. Our record of service in Florida extends for more than 45 years, building solid working relationships with state agencies. We have completed projects for numerous cities, counties and authorities throughout Florida, including solid waste engineering and planning services. With more than 400 skilled professionals and 9 offices throughout the state of Florida, we have a strong, local familiarity with a solid and in-depth understanding of the requirements and constraints involved in state projects. We will utilize our local knowledge and resources to successfully deliver projects on time and within budget.

We know that 'textbook' solutions don't always work for environmental and waste services, so we evaluate a broad range of your needs in the context of economic, environmental and social impacts. The result is sustainable, cost-effective, and tailored solutions to your specific program's needs. Our practice focuses on integrated project delivery with cutting-edge technology and expertise while delivering unparalleled, sustainable solutions for a global tomorrow.

The HDR team is best suited for your project because of our knowledge, relationships, and technical abilities. When you choose our team, you get the following benefits:

- A Team that has a comprehensive understanding of your project site details
- Complete, in-house staff who are available and responsive when you need them
- A Team that has a track record of successful FDEP landfill permitting
- Commitment to client satisfaction

HDR Project Site Experience

The HDR team has provided several solid waste services for Hernando County from 2009 to 2013 and from 2018 to the present. Our hydrogeologists, geologists and engineers have extensive knowledge of existing site conditions at the Northwest Solid Waste Facility and the closed Croom Landfill, therefore there is no learning curve when you select HDR.

Responsive In-House Staff

Our team has the ability to begin your project and see it through until the end, all with in-house staff. The capacity to accomplish work in a strict timeframe requires strong and experienced leaders backed by skilled team members. Our personnel are dedicated to providing sufficient time and effort to produce a quality product. With this in mind, our team members were carefully selected not only for their expertise and knowledge of your site, but also for their availability to immediately begin working on your project and to see it through completion.

A Successful Track Record with FDEP

The HDR team works closely with the Solid Waste Section of the FDEP. We have successfully worked with Southwest District FDEP staff on various solid waste projects. HDR has a strong track record of effective communication with the Solid Waste Section of FDEP's Southwest District Staff which has led to numerous successful projects.

Commitment to our Clients

Our bottom line comes down to your satisfaction throughout the duration of your project. Our team will ensure that we are meeting your needs from the very start to completion. To do this, we have established means of communication to ensure we are on track, meeting your needs.

SOLID WASTE SERVICES

In an ever-changing industry, our team continues to lead the way in innovative waste management strategies and ideas to provide you with the best solutions for your program.

Our services include:

INTEGRATED WASTE MANAGEMENT PLANNING

WASTE TRANSFER AND PROCESSING FACILITIES

WASTE TO ENERGY

ORGANICS MANAGEMENT

LANDFILL AND LANDFILL GAS SERVICES

PERMITTING, STUDIES, SITING AND OPTIMIZATIONS

RATE STUDIES AND EFFICIENCY ANALYSIS

STRATEGIC CONSULTING AND PUBLIC INVOLVEMENT

ENVIRONMENTAL REMEDIATION

PERMIT COMPLIANCE AND ASSET MANAGEMENT

Project Management Structure

The foundation for HDR’s project approach is our overall comprehensive Project Management Plan (PMP). The PMP is broken down into four key components that, when executed together, verify that the County’s expectations and goals are met throughout the duration of the project, from scope definition to successful project delivery. The PMP establishes the project requirements, identifies key client and project team communication protocols and contact information, establishes the schedule, identifies key project staff and the overall project work plan, and outlines the project quality assurance/quality control (QA/QC) requirements.

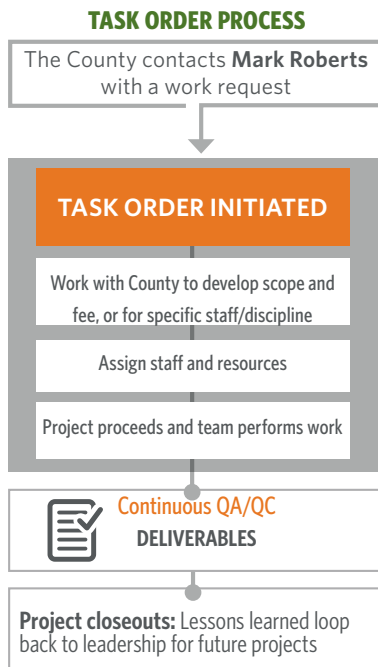
The Operations Plan component of the PMP integrates tracking and monitoring of the approved scope, budget, and project schedules for each project assignment, and defines requirements for invoicing, document control, and subconsultant management. An action item checklist is used as a management tool to track the project team’s progress.

More details regarding our PMP structure is included in Section 5. Project Approach of this proposal.

Communication Structure For Tasks

The County will contact HDR’s Project Manager, Mark Roberts, when there is a task order requiring our team’s services. He and appropriate team members will meet with County staff to discuss the scope of services and expectations for the project. Communication is critical to project success; it starts at the inception of the task and continues throughout. We will discuss the project with you, actively listen to your needs, and confirm that we clearly understand the task before moving forward.

One of the most important elements of any project is matching capabilities with task expectations. HDR’s experienced solid waste team of professionals combined with our other business groups are an ideal match for large and small projects, verifying that multiple task orders can be executed with right-sized, effective, and efficient teams.



Current and Projected Workload

The HDR Team has ample local and national capacity to support Hernando County over the life of this contract, and will continue to provide prompt, responsive, quality service on projects as assigned. HDR personnel are keenly aware of the importance of providing a high level of responsive client service; in fact, a cornerstone of our continued success has been our commitment to “Clients for Life,” which is symbolic of the importance placed on earning repeat business from our clients—a direct measure of HDR’s responsiveness, service, and value. Our company leadership, project management staff, and key technical resources all receive state of the art resource management and leadership training, and are provided with the necessary project and management tools to implement these concepts in the real world.

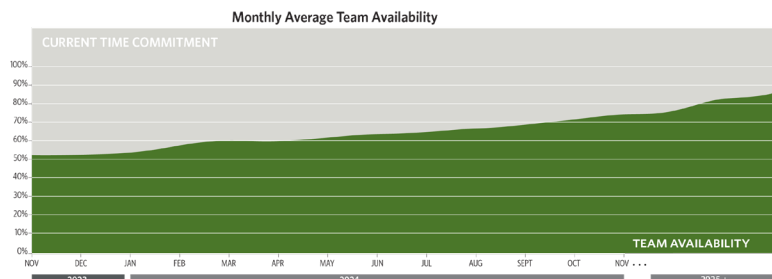
Trusted Local Leaders Supported by Committed Resources

The professionals and specialists chosen for this contract, most of whom are based in local offices, will be devoted to Hernando County throughout the contract’s duration. Furthermore, the County has immediate access to more than 400 employee-owners throughout Florida, and over 11,000 nationwide.

Our Project Manager, Mark Roberts, and supporting technical team members have a strong record of providing quality and efficient services to Hernando County in the past via our solid waste contract, and we have demonstrated in previous sections the level of staffing, service, relevant experience and abilities we will bring to the County.

Our deep pool of experienced resources and trusted leadership provides Hernando County with a comfort level that we will be able to meet the peak staffing demands and provide back-up for emergency, critical or unforeseen situations on any task assignment.

Our Team’s current and projected workload will allow us to continue providing Hernando County with quality services. We will continue to commit the necessary resources to meet the requirements of each task assignment in a cost-effective manner, and we are committed to exceeding your expectations on each task issued under this contract. Below is a timeline showing our staff’s availability over the duration of one year.



4 PRIOR EXPERIENCE

Expertise to Meet Hernando County Needs

Since 1974, HDR has assisted Florida counties and public authorities in the planning, permitting, design, construction, monitoring and reporting of solid waste management facilities. HDR’s solid waste team for Hernando County includes in-house solid waste engineers, planners, geologists, scientists, and technicians.

HDR is an innovative leader in developing and supporting solid waste management systems. HDR is on the forefront of optimizing landfill disposal facilities for alternative uses such as solar energy generation from landfill caps, converting landfill

gas to fuel (CNG), organic waste conversion to biofuels, yard and food waste composting. We have helped communities plan for and implement these types of programs across the U.S. and in Florida.

In Florida, we’ve provided the services requested in RFQ 23-R00046/PH for several similar communities. **The table below demonstrates where we’ve performed similar work in Florida.** On the following pages, we have provided detailed project information for a selection of similar contracts.

Services	Clients																	
	Volusia County	Flagler County	Big Rivers Electrical Corp	Sarasota County	Santa Rosa County	Charlotte County	Lee County	Alachua County	Hillsborough County	Bay County	Okaloosa County	Escambia County	Leon County	Hernando County	Collier County	Lake County	Miami-Dade County	Putnam County
SW Management Planning & Implementation				•		•			•			•		•			•	
Landfill Operations	•		•	•		•			•	•		•	•	•	•			
Stormwater Management and Permitting	•	•	•	•			•		•	•		•		•		•		
Landfill Operations Safety Plan									•	•		•						
Leachate Collection, Disposal and Reporting	•			•	•					•	•	•		•				
Landfill Gas Control and Reporting	•			•	•	•	•		•		•	•	•	•				
Groundwater Monitoring and Reporting	•	•				•					•	•	•					•
Preparation of bi-annual Groundwater Parameter Trend Analysis	•	•				•					•		•					•
Financial Assurance Compliance Reports	•	•	•	•	•	•		•	•		•	•		•		•		
Solid Waste and Air Permit Modifications	•		•	•	•		•		•	•	•	•		•				
Economic Feasibility Studies	•		•	•	•		•	•	•	•				•			•	
Cost/Benefit Analysis	•		•	•	•	•	•	•	•	•							•	
Tipping Rate Fee Analysis				•	•	•		•				•						
Waste Stream Composition Analysis			•					•					•				•	
Preparation of Conceptual Plans and Cost Estimates	•	•		•	•	•	•	•	•	•		•		•			•	
Engineering Design and Permitting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Preparation of Construction Bid Documents	•		•	•	•		•	•	•			•	•	•	•	•		
Bid Evaluation	•		•	•	•		•	•	•			•	•	•	•	•		
Construction Administration	•		•	•	•		•	•	•			•	•	•	•	•		
Construction Monitoring	•		•	•	•		•	•	•			•	•	•	•	•		
Preparation of Construction Certification Reports	•		•	•	•		•	•				•	•	•	•	•		



SANTA ROSA COUNTY

CONTINUING ENVIRONMENTAL & ENGINEERING SERVICES FOR CLASS I AND CLASS III LANDFILL OPERATIONS, LANDFILL DESIGN, LANDFILL GAS, LANDFILL GAS TO ENERGY & CONSTRUCTION

CLIENT CONTACT

Kaz Szymoniak
850.981.7139
kazs@santarosa.fl.us

SERVICES PROVIDED

- Landfill Expansion Design
- Landfill Construction Management and CQA
- Landfill Gas Flare System Design
- Title V Reporting
- LFG to CNG Feasibility Study and Preliminary Design
- Leachate Collection System Upgrades
- Leachate Basins Repair and Reconditioning

TIME PERIOD

2013 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Chelsea Williams, EI
- Kelsey Heller, EI
- Justin Raymond

MILTON, FL — HDR was selected by Santa Rosa County to provide Continuing Landfill Environmental and Engineering Services at the County's Central Solid Waste Disposal Facility which includes Class I Landfill, Class III Landfill, and Storm Debris Management Areas. HDR has been performing solid waste management consulting services for Santa Rosa County since 2006 and continues providing a wide range of expertise which include solid waste management planning, design, permitting, bid and construction support services. Specific services include:

- Class I cell expansion design, bid support, construction support, CQA and construction certification
- Landfill gas collection system design, permitting, bid support, construction support, CQA and construction certification
- Landfill gas control and reporting
- Title V permitting
- Landfill gas to energy options study
- Stormwater management and reporting
- Cost/benefit analyses
- Preparation of conceptual plans and cost estimates
- Leachate collection system upgrade design, bid support, construction support, CQA and construction certification

- Leachate pond upgrades design, construction support, CQA and construction certification
- Economic feasibility studies

HDR also provided planning services to determine the best reuse option for the County's LFG in 2016. Based on the quality and quantity of the LFG collected at Central Landfill, HDR and the County determined that the most feasible option to best fit the County's needs was to convert the landfill's gas to compressed natural gas (CNG) to fuel garbage trucks at the landfill.

HDR is currently developing the CNG RFP which includes a detailed description of the existing gas collection and control system, the landfill gas generation and quality, the proposed area designated for the CNG facility, and a complete description of CNG vendor responsibilities.

HDR is also providing permitting services for the CNG facility by modifying the existing FDEP solid waste and USEPA Title V permits. HDR is working with the County to submit a stand alone Title V construction permit application for the new control device.



ESCAMBIA COUNTY

SOLID WASTE ENGINEERING SERVICES, PERDIDO CLASS I LANDFILL

CLIENT CONTACT

Don Seitz
850.937.2164
dseitz@co.escambia.fl.us

SERVICES PROVIDED

- Landfill Expansion Design
- Landfill Construction Management and CQA
- Landfill Master Planning
- Leachate Collection System
- Landfill Gas Collection System
- Financial Analysis
- Landfill Closure Design and Permitting
- Environmental Reporting
- Solid Waste Ordinance Writing

TIME PERIOD

2008 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Chelsea Williams, EI
- Kelsey Heller, EI
- Justin Raymond

CANTONMENT, FL — Since 2008, HDR has provided engineering services at the Class I Perdido Landfill. Services have included landfill design and permitting, ERP permitting through FDEP and ACOE, fill planning, technology evaluations, and financial analyses.

HDR designed Section 5 expansion of the lined landfill in an area with a closed 45-acre unlined landfill. Waste mining was utilized to remove the waste for new cell development and expansion. HDR acquired a permit for the landfill mining project and for horizontal and vertical expansion.

HDR provided design and operations for stormwater diversion, leachate control, odor control, unacceptable waste handling, excavation plans, and the relocation of a section of the landfill gas collection and control system that had serviced the unlined areas.

HDR developed a new final cover surface with associated stormwater features that matched the existing landfill configuration. Based on these drawings, HDR performed a capacity analysis, determined the lifespan of the landfill and provided a schedule for future development to be initiated before landfill operations. HDR also developed a set

of 3-dimensional drawings to illustrate future development stages.

The project also included the design for the access road and stormwater controls. The design was based on the final build-out surface that was developed for the capacity analysis. The design incorporated storm water management controls, roadway grading, and drawings used for future planning. As the current operations reach final grades on the exterior slopes, HDR provided an access road phasing plan that illustrated the relocated access road and providing access to the increasing elevations and preserving disposal capacity.

HDR has also completed numerous other projects for Escambia County, including redesign of the scale house entryway, evaluation of the landfill gas collection system, methane gas migration control, financial analysis of landfill gas to energy, landfill closure design and permitting, visible emissions testing, environmental reporting, and assistance with writing solid waste ordinances.

HDR also worked with the County and Escambia County Utilities Authority (ECUA) to help them identify and technically evaluate short and long-term solid waste management solutions and assist in facilitating a process for reaching consensus.



BAY COUNTY

CONTINUING SOLID WASTE ENGINEERING SERVICES, STEELFIELD ROAD CLASS I LANDFILL

CLIENT CONTACT

Glenn Ogborn
850.233.5047
gogborn@baycountyfl.gov

SERVICES PROVIDED

- Landfill Expansion Engineering
- Feasibility Studies
- Financial Assurance
- Environmental Resource Permitting
- Waste Mining

TIME PERIOD

2006 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- Justin Raymond
- Keith Howard, PE,
- Kelsey Heller, EI

PANAMA CITY BEACH, FL — HDR has worked with Bay County for more than 17 years, providing solid waste engineering services at the Steelfield Road, Class I Landfill. The Steelfield Road Class I Landfill receives an average of approximately 1,000 tons-per-day. HDR's recent work primarily consists of infrastructure planning and evaluation, preparation of construction drawings, specifications and bid documents for solid waste projects, studies related to value engineering and/or the cost effectiveness of proposed facilities, process trains, designs and equipment, studies related to solid waste management, master planning, design and system financing/funding, feasibility and implementation, studies related to solid waste rates, special assessments, assistance in meeting environmental and regulatory requirements, conducting public hearings, workshops and presentations, and other general support services.

Over the recent term of the contract HDR performed the following services:

- Feasibility study for a deep well injection of landfill leachate

- Environmental Resource Permitting (ERP) for future landfill expansion areas
- FEMA reimbursement support
- Landfill leachate treatment feasibility study
- Landfill mining FDEP permitting
- Landfill FDEP operating permit renewal
- County solid waste management systems assessment
- Landfill expansion engineering support for design/build bidding
- Exposed Geomembrane Cap feasibility study
- Financial assurance reporting

Moreover, HDR conducted a landfill mining feasibility study and gained FDEP concurrence to perform landfill mining as a long-term viable method of remedial action. This plan involved mining and processing Class III landfill materials and soil for use as operational cover on the Class I landfill. Over the course of life of the existing Class I expansion area, the Class III landfill will be excavated with its cleared footprint intended for the future lined Class I expansion.



VOLUSIA COUNTY

CONTINUING SOLID WASTE ENGINEERING SERVICES

CLIENT CONTACT

Regina Montgomery
386.943.7889
rmontgomery@co.volusia.
fl.us

SERVICES PROVIDED

- Landfill Closure Design and Permitting
- Construction Management
- Landfill Gas
- Environmental Compliance
- NSPS, GHG, and CAA consulting
- NPDES permitting
- Financial Assurance
- Regulatory Coordination and Assistance

TIME PERIOD

2008 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Chelsea Williams, EI
- Kelsey Heller, EI
- Justin Raymond

PORT ORANGE, FL — Since 2008, HDR has been providing continuing environmental and engineering services to Volusia County's Solid Waste Department facilities which include operation of the Class I and Class III areas at the Tomoka Farms Road Landfill, the closed Class I Plymouth Avenue Landfill and a Class I transfer station. Services included environmental monitoring, design, permitting, and construction support for cell closure, and expansion, landfill gas collection and control, LFGTE, annual long-term care cost estimates, volume calculations, groundwater contamination assessment and remedial alternative evaluations, and site assessment investigations.

HDR prepares the annual financial assurance cost estimates for each of the County landfills. The cost estimates were performed using FDEP long form so that the most accurate estimates were generated. A careful review of previous work and an attention to detail helped save the County nearly \$1,000,000 due to an oversight by the previous consultant.

At the Plymouth Avenue Landfill, HDR performed a site assessment related to concentrations of iron, ammonia and thallium in groundwater. The assessment included installation of additional horizontal and vertical delineation monitoring wells, geologic core sample collection, and horizontal hydraulic conductivity testing. The Site Assessment Report included an interpretation of the hydrogeological regime beneath the site, determination of groundwater flow direction, delineation of extent of parameter concentrations and recommendations for further action.

HDR is also assisting the County with evaluating groundwater impacts at the Tomoka Farms Road Landfill. We are responsible for implementation of field data collection activities including the installation of horizontal delineation wells and horizontal hydraulic conductivity testing. HDR has characterized the site hydrogeology to provide a better understanding of the preferred flow paths beneath the site.

HDR supported the County to comply with applicable regulations related to its on-site LFGTE generator. On numerous occasions, HDR coordinated with the LFGTE contractor and County on wellfield operations and communication to reduce the potential for subsurface combustion. HDR prepared the letter to FDEP detailing the observations and the path forward to reduce temperatures in the wellfield.

HDR worked closely with FDEP regarding the landfill's air permit and developed a revised Title V permit application more aligned with neighboring landfills. We conducted blower/flare station analyses, startup/shutdown malfunction plan updates for flare compliance activities and reporting. Our Team also assisted with design, permitting, and construction services for landfill gas expansions and retrofits at the Tomoka Farms Road Landfill.

HDR performed professional engineering services for the construction level design, intermediate permit modification, and construction documents for the closure of the 85-acre North Cell of the Class I Landfill at the Tomoka Farms Road Landfill.

As part of stormwater modifications, HDR provided a hydraulic analysis to show the impact of modified stormwater flow conditions that will occur with construction of the Subtitle D prescribed closure system to the permitted landfill. HDR also conducted a review of the current structures and utilities in the area and determined a number of design improvements that could be implemented at closure to increase the performance of the system to better convey runoff away from the cell.

HDR also assisted the County with development of the Phase II Areas 3 and 4 cell expansions for the Tomoka Farms Road Landfill. HDR performed an Environmental Resource Permit (ERP) application and stormwater management design for a new future Class I Landfill Expansion.



LEE COUNTY

LEE-HENDRY SOLID WASTE FACILITY MASTER PLANNING, CLASS I LANDFILL EXPANSION DESIGN, FDEP PERMITTING, CONSTRUCTION-LEVEL DESIGN, BID SUPPORT, AND CONSTRUCTION ENGINEERING SERVICES AND CQA

CLIENT CONTACT

Linda Braam
239.271.7853
lbraam@leegov.com

SERVICES PROVIDED

- Landfill Expansion Design
- Permitting
- Landfill Construction Management and CQA
- Landfill Master Planning
- Bid Support
- Subsurface Investigation

TIME PERIOD

2020 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Kanishka Perera, PhD, PE
- Joshua Miller, PE
- Doug DeCesare, PE
- Joel Miller, PE
- Justin Raymond
- Jeff Murray, PE
- John Catches, PG
- Tom Yanoschak, PE
- Keith Howard, PE,
- Chelsea Williams, EI
- Kelsey Heller, EI
- Van Smith, PE

FELDA, FL — In 2020, HDR was selected as the County's consulting partner for the Lee-Hendry County Solid Waste Facility. Our services included planning, designing, permitting, and overseeing the construction of a 15-acre Class I landfill expansion. HDR initially provided an updated landfill master plan for the remaining 56-acre Class I footprint and subsequently designed and permitted the finalized area for future development. Following the FDEP permit approval, HDR delivered a detailed design and construction documents for the 15-acre Class I footprint that included three sub-cells and a future expansion spanning 29 acres.

In response to the impact of Hurricane Ian in 2022, which affected the solid waste disposal rate and necessitated the development of additional airspace sooner than anticipated, HDR accelerated the design of second expansion. Our permit-level design was approved in 2021 with zero delays, and construction was already in progress on the

15-acre expansion area when Hurricane Ian struck Fort Myers. HDR responded with accelerated engineering services to address the County's urgent solid waste needs.

Detailed tasks and activities for the project included:

- Conceptual design services
- Contract administration services
- Coordination with the FDEP
- Review of existing site data
- Subsurface investigations and reports
- Aerial surveying and ground surveying
- Surface water management analysis and ERP
- Operational fill sequencing
- Global stability analysis
- Leachate system analysis
- Landfill gas collection system master plan
- Soil options analysis
- Bid support
- Permit and construction level designs
- Construction management services
- Full-time CQA services and cell certification



HERNANDO COUNTY

SOLID WASTE ENGINEERING CONSULTING SERVICES

CLIENT CONTACT

Scott Harper
352.754.4791
Sharper@co.hernando.fl.us

SERVICES PROVIDED

- Operations Assistance
- Permitting
- Groundwater
- Facility Master Plan
- ERP Modification
- Title V
- Greenhouse Gas Management

TIME PERIOD

2009-2013; 2018-Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Justin Raymond
- Keith Howard, PE,
- Hala Sfeir, PE
- Francis Cheung, PE

BROOKSVILLE, FL — From 2009 to 2013 and from 2018 to the present, HDR has provided a variety of solid waste services to Hernando County, including onsite operational assistance, permitting and renewals, groundwater and geotechnical issues, facility master plan design and landfill gas (LFG) assistance including Title V and greenhouse gas management.

HDR assisted the County with the 19.5-acre partial closure for the Northwest Waste Management Facility (NWWMF). The Phase I Landfill Closure project included the design and construction of a 40-mil LLDPE/geocomposite closure cap, two feet of cover soil from onsite sources, gabion downchutes and an expansion of the LFG collection system. The permit application included veneer slope stability analysis, road stability analysis, modifications to the stormwater control system, geocomposite drainage evaluation and technical specifications. HDR obtained the solid waste permit with only one regulatory Request for Additional Information.

HDR prepared an Environmental Resource Permit (ERP) modification application to modify the NWWMF's stormwater control. HDR was also able to combine all the existing ERPs into one facility-wide permit thus reducing redundancy and future permit obligations. Again, HDR obtained the ERP with only one regulatory Request for Additional Information.

HDR prepared an update of the NWWMF master plan design. HDR worked closely with landfill operators to make the most efficient use of potential airspace and ensure that the facility remains the center of County solid waste operations for several decades. The plan encompassed the future of solid waste disposal activities for the 300-acre property including citizen's waste drop-off areas, recycling, MSW disposal, C&D disposal and borrow soil. The plan included cost projects for expansions and phased closures. The plan addressed concerns regarding geotechnical analysis and potential regulatory concerns,

The facility falls under the requirements of the Clean Air Act-NSPS for LFG generation. HDR worked with regulators to provide a smooth permitting process for acquiring the facility's Title V air permit. County solid waste staff looked to HDR to communicate directly with FDEP SW District Air District staff during the permitting process. Our excellent working relationships with the FDEP SW District staff were important in making the process efficient and resulted in specific permit conditions which will not create undue burden on the County.

HDR has performed several other tasks for the County. HDR performed the Croom Landfill Environmental Stability Permit Renewal for FDEP approval in 2018 and has provided annual greenhouse gas reporting at NWWMF since 2019. HDR also submitted the compost facility permit application to FDEP for the processing of yard waste and wastewater biosolids at the NWWMF. The County received the FDEP permit approval in 2022.



HERNANDO COUNTY

NORTHWEST WASTE MANAGEMENT FACILITY CELL 4 CLASS I LANDFILL EXPANSION MASTER PLANNING, CLASS I LANDFILL EXPANSION DESIGN, FDEP PERMITTING, CONSTRUCTION-LEVEL DESIGN, BID SUPPORT, AND CONSTRUCTION ENGINEERING

CLIENT CONTACT

Scott Harper
352.754.4791
Sharper@co.hernando.fl.us

SERVICES PROVIDED

- Landfill Expansion Master Planning
- Landfill Expansion Design
- FDEP Permitting
- Construction Engineering
- Bid Support

TIME PERIOD

2019-Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Justin Raymond
- Keith Howard, PE,
- Kelsey Heller, EI
- Chelsea Williams, EI

BROOKSVILLE, FL — In 2019, HDR was selected to plan, design, permit, and oversee construction of Cell 4, an approximate 30-acre Class I landfill expansion of the Northwest Waste Management Facility (NWWMF). HDR developed a landfill master plan that incorporated site features, future landfill cells, a future compost facility, and an expanded landfill gas collection system. The future landfill cells expanded the landfill's capacity, ensuring usability until 2083.

HDR secured the necessary permits for the 30-acre expansion with FDEP with only one minor Request for Additional Information (RAI). The project continued on schedule for cell excavation in 2022. Special design features included a woven geotextile deployed as an additional structural component beneath the double liner system to address potential sinkhole development within the landfill footprint.

For Cell 4, HDR designed leachate collection and detection systems to incorporate side slope riser pipes connected to above-ground

leachate storage tanks. The Cell is divided into three sub-cells for initial operational flexibility and leachate/stormwater management. This approach resulted in cost savings, enabling collected stormwater in the new cells to be pumped out.

Detailed tasks and activities for the project included:

- Permit and construction-level design services
- ERP permitting and construction-level design services
- Develop sinkhole remediation plan and successful implementation
- Cell excavation plans, specifications, bidding, cost estimate and construction support to excavate 1 million+ CY of soil & boulders
- Contract administration services
- Coordination with the FDEP
- Subsurface investigations and reports
- Aerial surveying and ground surveying
- Operational fill sequencing
- Global stability analysis
- Leachate system analysis

5 PROJECT APPROACH

Budget Methodology/Cost Control

HDR will meet your budget requirements for each project through a proven approach to project execution. We understand financial constraints and applying the appropriate level of design for each unique project. Our team will work with the County to verify budget constraints and expectations for every assignment. Task Order based assignments usually start with a phone call or an email request from the Procurement Department or Solid Waste Services Manager. Our project manager, Mark Roberts, will review the project requirements and prepare a scope of work, an initial staff hour/fee estimate and a project schedule for review and approval by County staff. For more complex projects, or if the scope reflects new or unique requirements, Mark will pull in the appropriate HDR subject matter experts to meet with the County to discuss the issues and essential scope elements.

Task Assignment Approach

Develop Scope of Work: It is extremely important that the goals and objectives of the task assignments are clearly defined and understood by each team member. The scope developed for each task forms the basis for staffing the assignment and for estimating the level of effort required to complete the task. For the more complex task order assignments, Mark will engage the team members who are most knowledgeable in the various study or design elements to develop the scope content for these specialized work elements, which will be integrated into the overall scope of work. The staff hour/fee estimates for the various elements of the task will be similarly developed.

Develop Staffing Plan: A specific staffing plan will be developed to fit the requirements of the task. One of our objectives in this phase is to make staffing assignments based on the level of experience that is required for the job. HDR will manage County resources judiciously and we will assign the most appropriate staff who have the required skills and abilities for the task at hand and who are the most cost-effective personnel.

Staff Hour/Negotiations: Once we have a clear understanding of the scope and the staffing requirements, staff hours will be finalized and the fee estimate can be developed based on established rates and procedures. This effort normally takes place concurrently with the refinement of the scope. We understand the need to accomplish the required work within your budget guidelines and we will not pursue supplements unless there are significant unforeseen scope changes.

- DEVELOP SCOPE OF WORK
- DEVELOP STAFFING PLAN
- STAFF HOUR/NEGOTIATIONS
- DEVELOP SCHEDULE
- COORDINATION
- MONITOR PROJECT COST

Develop Schedule: A basic schedule defining the major tasks and proposed milestone delivery dates will be prepared for all task order assignments. For studies or certain other assignments, the schedule may be comprised of draft and final delivery dates. HDR will commit the resources required to meet the schedule defined by the County's Project Manager and verify we are meeting the County's overall needs.

Coordination: HDR will administer and manage all tasks assigned under this contract. Mark will serve as the primary contact for the County and will work directly with the County staff to initiate the work on task assignments. He will keep the County's Project Manager informed regarding all relevant issues with a focus on key items requiring County feedback. Our extensive experience delivering solid waste services has allowed our team to continue enhancing our communication and coordination procedures to deliver superior projects to the County.

Monitoring Project Costs: An important internal resource available to the project manager is HDR's customized Oracle software, E-Business Suite (EBS). This program is used to assess workload requirements and estimated costs to complete assignments, as well as all relevant project information including project status, history, remaining budgets vs. future work, labor costs, expenses, and staff availability. Mark will use this tool to monitor project expenditures and develop Labor Forecast Analysis reports.

Project Management Plan

For a project to be considered a success, work must be completed on schedule, within budget, and error free. At the start of each project, our project manager prepares a Project Management Plan (PMP) to document all information necessary to execute a successful project.

The PMP is an internal document that serves as a road map for the project team. The PMP complies with local, state, and federal guidelines and requirements and defines the vision; implementation strategy; schedule and budget criteria; and the policies, procedures, and standards for the project. The PMP is the master reference document for the team and provides guidance to subconsultants engaged throughout the life of the program, from inception through planning, design, and construction. The PMP provides a level of continuity and standardization to facilitate time and cost-effective communications and decision-making. The PMP serves as a formal process to monitor risks, minimize costs, reduce scope creep, and identify potential schedule impacts.

We use a combination of company-developed tools and procedures for delivering consistency in our work, managing internal tasks, maintaining communication, and staying ahead of schedule and under budget. We are always willing to incorporate new methods as our clients and project work dictates.

The Project Management Plan includes:

- Program Organization Chart
- Scope Management
- Cost Estimates Requirements
- Communication Plan
- Document Control
- Project Controls Plan
- Procurement Management
- Contract Management
- Engineering Management
- Quality Assurance & Quality Control (QA/QC)
- Environment, Health & Safety Measures
- Dashboard & Reporting
- Closeout Procedures

SHARE GOALS

- Vision for the Future
- Team Relationships
- Complete Plans
- Determine Resources
- Project Guidelines & Procedures

EXECUTE PROJECT

- Risk Assessment/Project Initiation
- Project Monitoring/Control
- Project Development
- Project Deliverables

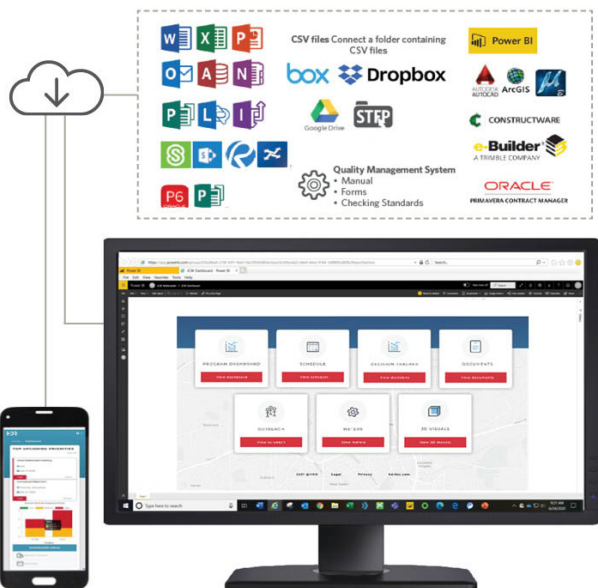


EFFECTIVELY COMMUNICATE

- Client Staff
- HDR Management
- Project Team
- Subconsultants
- Stakeholders

MONITOR QUALITY

- Project Planning Review
- Risk Assessments
- QC Checking
- QC Reviews
- Project Reviews



Project Management Information System

Our Project Management Information System (PMIS) integrates scope-of-work activities with schedule, resources, and budget details. The PMIS system is a customizable, secure, and scalable cloud-based platform. PMIS provides a one-stop visual workspace through dashboards and pages that captures data from numerous software programs to monitor defined and desired workflows. We foster transparency and communication through coordination meetings and a number of communication tools.

5 PROJECT APPROACH

Quality Control Methodology

Our Project Manager, Mark Roberts, will lead the quality component for Hernando County's Landfill Continuing Engineering Services Contract. Mark will work closely with technical support staff through all phases and elements of the contract to achieve the level of quality needed to make it successful.

HDR's focus on quality is a mindset shared by every member of our team. It starts by clearly understanding expectations and making a commitment to meeting them with every deliverable. HDR's Quality Program focuses on the proactive use of QA procedures, coupled with comprehensive QC reviews of program deliverables to verify the scope, schedule, budget, and deliverables are consistent with program goals.

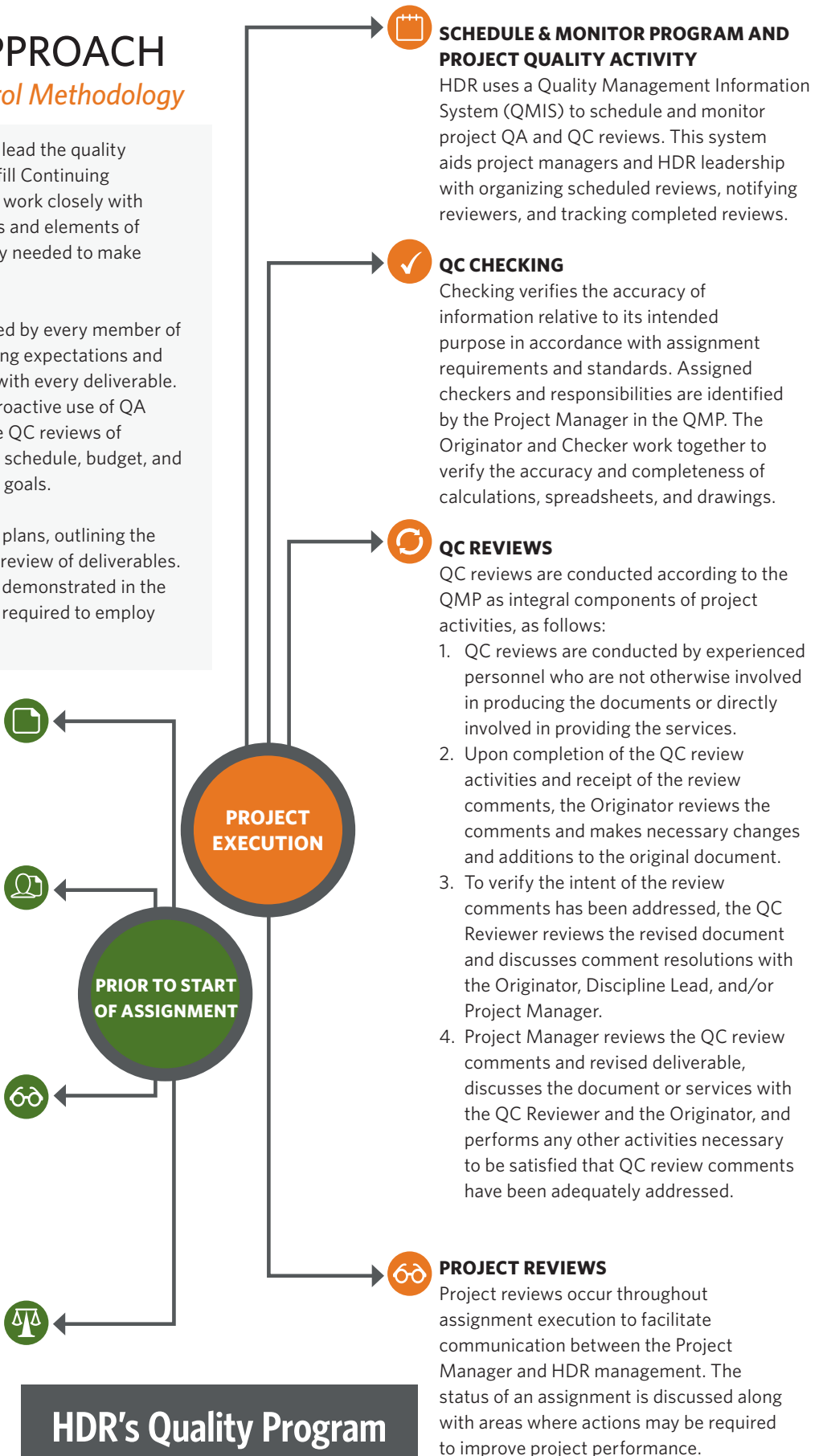
We will prepare project-specific QA/QC plans, outlining the independent subject matter experts and review of deliverables. HDR's established QA/QC elements are demonstrated in the graphic on this page. Subconsultants are required to employ similar quality review processes.

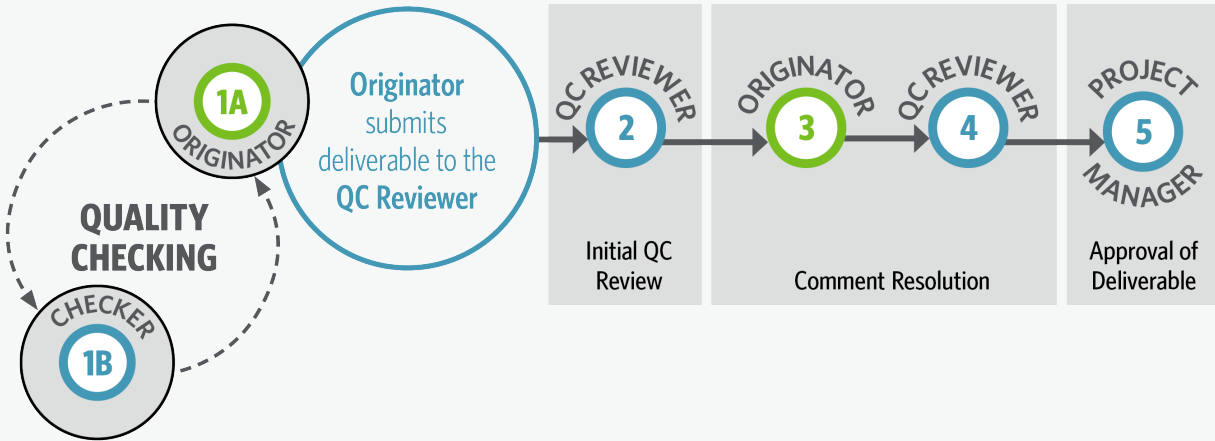
PROJECT MANAGEMENT PLAN (PMP)
A PMP is created and communicated to the project team by the Project Manager. The PMP includes guidelines for project team members to efficiently and effectively execute each assignment.

QUALITY MANAGEMENT PLAN (QMP)
A QMP is created and communicated to the project team by the Project Manager. The QMP provides details on how QA and QC activities shall be performed.

PROJECT PLANNING REVIEW
A planning review is scheduled with the Project Manager and appropriate local leadership to discuss and verify contractual, business, and management issues have been adequately prepared and planned for prior to the beginning of task assignment execution.

RISK ASSESSMENT
Risk assessments are performed throughout each assignment. Mitigation plans are developed and reviewed with senior management for assignments with identified elevated risks.





Quality Assurance/Quality Control

HDR's QA/QC Program has been built around several key elements of HDR's mission and values which consist of:

- Maintaining a reputation for quality performance
- Client satisfaction
- Continuous process improvement
- Open communication
- Team work

HDR is a collaborative environment where all personnel share information on a staff-wide basis to help deliver consistency, quality, and innovation to our clients. HDR's Quality Assurance Plan is based on very simple standards. No work will leave until the HDR Project Team QA/QC leader has verified that the requirements of the Project Quality Control Plan have been met.

HDR's professional services are based on sound principles that meet the standards of professional practice and satisfy the quality requirements of the Scope of Services. HDR's Project QA/QC Manager for this project, Doug DeCesare, will develop and distribute copies of the project-specific Project Quality Control Plan to all team members. All project team members are required to use the QC Production and Review Procedures. HDR's Project Manager, Project QA/QC Manager, and the entire Project Team together are committed to applying sound engineering principles and producing quality, accurate and complete documents.

Team Member Coordination

Mark will be responsible for coordination among the HDR team members, including subconsultants, and will use the project schedule to closely monitor and coordinate team efforts. Staff selected for the project will be knowledgeable and experienced to best match the project needs. The assignment of appropriate staff will allow quick and efficient execution of the tasks at hand and allow the project to be completed on schedule and within the budget. For each task or assignment, Mark will identify a lead technical person with the appropriate experience and skills to be responsible for day-to-day management of the task.

HDR'S QUALITY CONTROL METHODOLOGY INCLUDES STEPS TO CHECK THAT:

- ✓ County procedures are followed
- ✓ Project is designed for durability and maintainability.
- ✓ Energy efficiency improvements are considered through an integrated design process, life cycle costing, energy standard(s), and the specification of energy efficient materials

The HDR Team has provided resources that are available for this project; the depth and breadth will allow the HDR Team to address all project needs identified by the contract scope. Formal internal project reviews will occur at key moments of the project. A "zero percent" review at the outset of the project ensures that our entire team is fully engaged and our project management systems are deployed. Milestone project reviews help keep the entire team accountable for project success and help manage project budget and schedule. Routine project communication include conference calls, web meetings, labor forecast meetings, and document QC sessions.

5 PROJECT APPROACH

Schedule

Project Understanding

HDR understands that Hernando County (County) is seeking a consultant to perform continuing landfill engineering services. HDR is a full service solid waste engineering firm that performs all of the consulting services listed in the RFQ. Throughout this section, we've called out specifically where each scope item and qualification item apply.

HDR PERFORMS ALL SERVICES LISTED IN RFQ

Scope Items	Qualification Items
A Solid waste planning	1 Landfill permitting and renewals
B Subsurface investigation	2 Leachate management
C Permit renewals	3 Groundwater issues
D Environmental evaluations	4 Landfill gas control and collection
E Economic evaluations	5 Gas to energy systems
F Rate studies	6 Rate evaluation
G Pro formas	7 Waste stream analysis
H Stabilization studies	8 Master plan update
I Annual reporting requirements	

Our team consists of engineers, planners and procurement experts from HDR; financial experts from Raftelis; engineering resources currently assisting the County from JHS Environmental Engineering (JHS); and geotechnical & subsurface investigation experts from Ardaman and Associates, Inc. (Ardaman). This team has vast experience in providing the above referenced services as demonstrated by our qualifications.

Engineering Services

The HDR team currently provides Landfill Engineering Services to the Hernando County solid waste and recycling department. Our staff continuity enables HDR to bring our personnel with experience in the Northwest Solid Waste Management Facility (NWSWMF) to the project team. We have in depth and readily available staff to provide all of the services required by the County in a timely and cost-effective manner. The following sub-sections describe HDR's understanding of some of the services that may be required during the contract period:

Support Existing Operations

HDR will support the County's existing operations by fulfilling the County's ongoing reporting & permitting requirements.

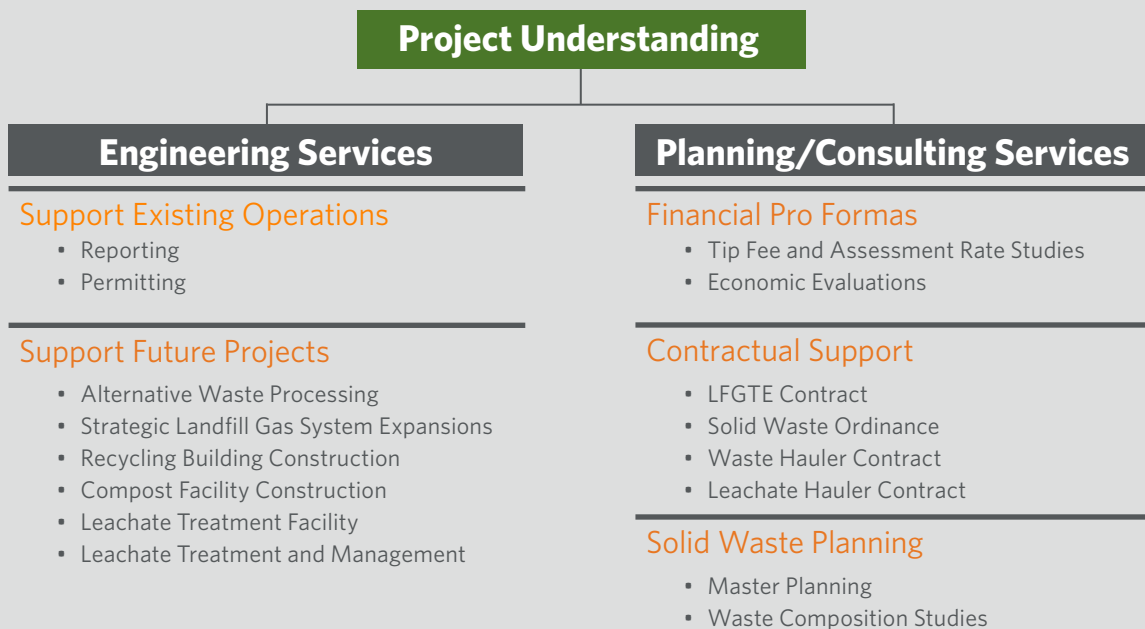
Existing Operations Items Covered

- ✓ **C** Permit renewals
- ✓ **H** Stabilization studies
- ✓ **I** Annual reporting requirements
- ✓ **1** Landfill permitting and renewals
- ✓ **3** Groundwater issues

Reporting: HDR will prepare and submit compliance reports in advance of the regulatory deadlines.

HDR has extensive experience in providing reporting services for clients throughout the FDEP Southwest District office and Tallahassee headquarters. HDR will provide the County dedicated team for maintaining its regulatory compliance through timely compliance reporting for both solid waste and air branches of the FDEP. The tables on the following page illustrate HDR's understanding of the County's current reporting requirements.

A MAP TO OUR APPROACH



SOLID WASTE REPORTING

Facility ID	Report	Due Date
NW-C1	Remaining Site Life	September 1 every year
NW-C1	Waste Quantity	January 15 every year
NWSWMF & CRLF	Quarterly Perimeter Gas Probe Monitoring	Within 15-days after end of each quarter
NWSWMF & CRLF	Semiannual Groundwater Monitoring	Within 60-days after laboratory analysis
NW-C1	Groundwater MPIS Technical Report	3/31/2025; 9/30/2027; 3/31/2029
NW-C1	Leachate System Inspections	Every 5-years
NWSWMF	Closure & Long Term Financial Assurance	September 1 every year
NW-C&D	Annual Report	February 1 every year
NW-C&D	Groundwater MPIS Technical Report	9/30/2025
CRLF	Biennial Passive Vent Monitoring	With Quarterly Gas Probe Monitoring
CRLF	Stabilization Report	10/15/2024; 10/15/2029
CRLF	Groundwater Monitoring, Expanded Parameter List	10/15/2024
CRLF	Quarterly Leachate Generation	By 1/15; 4/15; 7/15; 10/15 every year
NWSWMF & CRLF	Other As Needed Reports (e.g., Well Completion)	As needed and as specified in permit

AIR REPORTING

Facility ID	Report	Due Date
NWSWMF	Annual Operating Report & Emission Fee	April 1 every year
NWSWMF	Greenhouse Gas Report	March 31 every year
NWSWMF	NMOC Tier II Testing	Every 5-Years (Due by September 2028)

NWSWMF Northwest Solid Waste Management Facility (Class I & C&D Landfills)
NW-C1 Northwest Class I Landfill
NW-C&D Northwest C&D Landfill
CRLF Croom Landfill (Closed)

Permitting: The HDR team has an excellent working relationship with Florida regulators and have carried out permitting efforts seamlessly. Mark Roberts, HDR’s Project Manager has successfully permitted dozens of landfill facilities and has worked with the FDEP on their rule making committees setting the latest rules and requirements for landfill facilities. HDR will provide permitting assistance to the County, including the facility permit renewals in the following table.

FACILITY PERMIT RENEWALS

Facility ID	Report	Renewal Due Date
NW-C1	Class I permit	June 7, 2035
NW-C1	5-Year Interim Class I Permit Update	8/7/2025; 8/7/2030
NW-C&D	C&D Long Term Care (LTC)	Annual
CRLF	Class I LTC Permit	October 16, 2024
NWSWMF	Title V Air Permit	12/2023; 12/2028

Support Future Projects

Alternate Waste Processing: HDR understands the County’s desire to explore alternate waste processing technologies. HDR has extensive evaluation, design and operations experience in traditional composting, anaerobic digestion (AD), materials recovery facilities, mixed waste processing etc. HDR understands the County’s desire to evaluate composting and AD further. HDR will partner with the County to analyze these project and assist in developing these projects if feasible.

Future Projects Items Covered

- ✓ **A** Solid waste planning
- ✓ **B** Subsurface investigation
- ✓ **D** Environmental evaluations
- ✓ **1** Landfill permitting and renewals
- ✓ **2** Leachate management
- ✓ **3** Groundwater issues
- ✓ **4** Landfill gas control
- ✓ **5** Gas to energy systems
- ✓ **7** Waste stream analysis

- **Compost Facility:** HDR permitted a compost facility at the NWSWMF. HDR’s teaming partner, JHS, is currently assisting the County with preliminary logistics associated with constructing a Compost Facility. HDR will utilize the information to assist the County in developing a fully functional compost facility. HDR has successfully permitted and designed compost facilities to incorporate sludge, food wastes, and wood debris.

- **New Recycling Facility:** HDR understands that the recycling facility at NWSWMF was destroyed by fire recently. Limited recycling operations are currently conducted at a temporary facility. HDR understands the immediate need for a state of the art recycling facility to the County. HDR’s in house professionals have previously designed and constructed waste recycling facilities throughout the County. HDR can look into constructing the future recycling facility in conjunction with the compost facility for cost saving purposes.



Strategic Landfill Gas Expansions: HDR understands the County's desire to accelerate and augment LFG production upon the conclusion of the current gas to energy contract. HDR will examine various options with the County to increase LFG production with minimal additional cost to the County. These options include:

- Retrofitting leachate lines in Cell 3 of the Class I landfill with LFG wellheads;
- Retaining existing wells on Cells 1 & 2 and Cell 3 interface by adding remote wellheads or vertical extensions using caisson or Termite Well Perforator™ >> technologies; and
- Installing planned horizontal collectors with vertical drains for efficient and cost effective gas collection from future waste to be disposed of in Cells 1 to 4.

Transfer Station Upgrades & Development: HDR has a dedicated facilities team lead by Bob Rella. HDR will fully support the County in transfer station related work. We are experienced in transfer station upgrades and also planning and developing a new facility.

Leachate Treatment and Management: Should the County have any leachate management related needs, HDR will be engaged to solve leachate management related issues. Currently, HDR is providing leachate treatment options to utilize treated leachate on-site for Volusia County in Florida and has site-specific information that could benefit Hernando County in this Field.

Planning/Consulting Services

HDR understands that the County's solid waste system serves approximately 78,000 residential units and disposes of over 150,000 tons of waste annually primarily to the NWWMF. HDR's team, consisting of HDR, Raftelis and JHS, will coordinate with the County to ensure continuity of planned and efficient solid waste services to residents of the County. HDR's team has provided the County planning and consulting services successfully in the past and look forward to continue the partnership in the future.

Financial Pro Formas

HDR is intimately familiar with the County's past and on-going financial Pro-Formas. Raftelis (formally PRMG), HDR's teaming partner, has assisted the County in its annual solid waste revenue sufficiency analysis, alternate waste disposal financial evaluations and various other economic evaluations, such as marginal cost of landfilling analysis. HDR will continue to provide financial pro-forma services to the County, including tip fee and economic evaluations described below.

Financial Pro Formas Items Covered

- ✓ E Economic evaluations
- ✓ F Rate studies
- ✓ G Pro formas
- ✓ 6 Rate evaluation

Tip Fee and Assessment Rate Studies: HDR's teaming partner Raftelis (formally PRMG) was previously assisted the County with evaluation of the anticipated billing change from monthly billing to special assessment. HDR team will continue to provide the County tip fee and assessment rate study related services.

Economic Evaluations: HDR provides a wide variety of expertise in economic evaluations. HDR will assist the County in evaluating various planning and engineering options. For example, should the County consider identifying new waste streams in and outside the County, HDR's planning experts will collaborate with the County in developing strategic and financial plans to evaluate such options.

Contractual Support

HDR's team includes technical and procurement experts who can provide contractual support to the County. Few examples of contractual support related services are detailed below that can be of interest to the County.

Contractual Support Items Covered

- ✓ A Solid waste planning
- ✓ 4 Landfill gas control
- ✓ 5 Gas to energy systems

LFGTE Contract: HDR is a leading landfill gas to energy consultant with LFGTE technical experts who have "owner's engineer" and "developer" experience in such projects. HDR can provide a full scale services in negotiating LFGTE contracts with the developer.

Solid Waste Ordinance: HDR has extensive experience in providing solid waste ordinance assistance services to municipal clients in and outside Florida. HDR can work closely with the County to evaluate commercial/residential ordinances in place



Raftelis (formally PRMG), HDR's teaming partner, assisted the County in identifying additional costs ranging from \$12-16 million from an alternate waste processing vendor. These additional cost findings assisted the County in making an informed decision on the proposed technology.

and can partner with the County to find avenues to better streamline solid waste management services within the County.

Waste Hauler Contract Negotiations: HDR understands that the County has various waste hauler contracts for its four districts. HDR has extensive experience in contract negotiations with the waste haulers, and should situation arises, HDR will collaborate with the County to undertake negotiations of various contractual items, such as collection frequencies, billing rates etc.

Leachate Hauler and Treatment Contracts: HDR understands that the County is currently hauling leachate to third party treatment plants to treat and disposal. Due to quality of leachate, some of the treatment plants have shown reluctance to accept county generated leachate. HDR's teaming partner JHS has assisted the County negotiating treatment contracts and finding alternate solutions to manage NWWMF generated leachate. Our team will continue to examine leachate treatment options for the County.

Solid Waste Planning

HDR team has assisted various municipal clients in and outside Florida with solid waste planning needs. In fact, HDR has assisted the County with NWWMF's Site Master Plan in the past. HDR will continue to collaborate with the County to assist with various planning needs. A few examples of such projects are provided below.

Solid Waste Planning Items Covered

- ✓ **A** Solid waste planning
- ✓ **7** Waste stream analysis
- ✓ **9** Master plan update

Master Planning: HDR will assist the County in various master planning aspects, including:

- **Overall Solid Waste Master Planning:** If needed, HDR is fully capable of evaluating the County's existing solid waste program. Various components of the master plan can include analyzing collection efficiency with in four districts, public outreach to promote diversion and recycling awareness, different disposal and processing technologies, need for future transfer stations, social return on investment associated with solid waste programs, carbon footprint of solid waste program etc.
- **Landfill & LFG Master Planning:** HDR has previously prepared the NWWMF's site master plan and can update the plan by discussing such items with the County: compost and anaerobic digestion and impacts to the solid waste program, fill sequence planning etc. HDR can also update the master plan for increased LFG collection from the landfill. HDR has prepared LFG master plans for numerous municipal clients and can collaborate with the County to plan LFG expansions with minimal cost and maximum benefits to the County.



Our expertise in LFGTE contract reviews will allow us to assist the County with contract negotiations and explore opportunities to increase revenue.

Waste Composition Studies: HDR teaming partner, JHS, has intimate knowledge of the County's previous waste composition studies. HDR's extensive knowledge in performing such studies and HDR's familiarity with the County's solid waste system will enable HDR to plan and perform waste composition studies to achieve targeted goals, such as evaluating recycling numbers for solid waste master planning and identifying waste fractions (Class I, yard waste etc) for determining accurate assessment rates for the County's residents.

EXISTING AND PROPOSED FUTURE FACILITIES AT THE NORTHWEST SOLID WASTE MANAGEMENT FACILITY



6 WORK LOCATION

HDR's managing local office for Hernando County is located at 4830 W Kennedy Blvd., Suite 400, Tampa, FL 33609. **Our Project Principal and local production center are located in the HDR Tampa office, located less than 59 miles from the Hernando County Solid Waste and Recycling Department.**

HDR has carefully selected each team member for this contract based on their experience, proximity to Hernando County, and their ability to augment our deep bench of Florida staff. Our team members have proven performance with Hernando County, and all team members will continue to provide the County with prompt, responsive, and quality services.

As a national firm, HDR will also utilize industry-leading experts from additional locations in Florida and variety of offices nationwide, as needed. All of our proposed solid waste team members routinely work with one another and have worked together on projects of similar scope and size. Furthermore, our Project Manager, Mark Roberts, is very familiar with Hernando County's staff and Solid Waste and Recycling Department. We do not see foresee any challenges with the proximity of our team and team member coordination.



PRIMARY FLORIDA OFFICE LOCATIONS
 Jacksonville, FL | Orlando, FL | Tallahassee, FL
 Tampa, FL | Sarasota, FL | Pensacola, FL
 Doral, FL | Fort Lauderdale, FL
 West Palm Beach, FL

CONTACT DETAILS
HDR Local Office: Tampa, FL
Address: 4830 W Kennedy Blvd., Suite 400, Tampa, FL 33609
Main Phone Number: 813.282.2300
Fax Number: 813.282.2430
Email: Mark.Roberts@hdrinc.com
Website: www.hdrinc.com

SUBCONSULTANT WORK LOCATIONS	
SUBCONSULTANT FIRM WORK ADDRESS	MILES FROM COUNTY
JHS Environmental Engineering 278 Needles Trail, Longwood, FL 32779	76 mi.
Ardaman & Associates 8008 South Orange Ave., Orlando, FL 32809	83 mi.
Raftelis 341 N. Maitland Ave., Suite 300, Maitland, FL 32751	83 mi.

HDR's Florida Practice
 Started in Tampa and opened in
1974

TODAY WE HAVE
9 PRIMARY FLORIDA OFFICE LOCATIONS

400+ FLORIDA STAFF



RFQ 23-R00046/PH

Statement of Qualifications

Engineering Services on a Continuing Basis - Landfill

Hernando County, Florida

November 6, 2023





November 6, 2023

County of Hernando
Submitted via OpenGov

RE: RFQ No. 23-R00046/PH | Engineering Services on a Continuing Basis - Landfill

Dear Members of the Professional Services Review Committee:

At HDR, we understand that Hernando County's (County) solid waste management program faces unique opportunities in the coming years. Our job is to listen to your needs and develop the best solutions for your program and community. Within this submittal we focus on the value that HDR brings specifically to your solid waste program. Our full-service team brings together uniquely qualified local and national solid waste engineering and planning expertise, plus experienced project management to deliver cost effective, timely and innovative solutions. We also offer fresh perspectives as well as detailed experience at the Northwest Solid Waste Management Facility. Our team offers the following unique features to the County:

- ✓ **We understand the County's Solid Waste Management System needs over the next 5 years and beyond.** HDR currently provides Continuing Solid Waste Engineering Services to the County and we have maintained an understanding of the County's future solid waste management needs. In the **Project Approach section** of our proposal, we highlight our understanding of all facets of your Solid Waste Management Program. The HDR team is prepared to continue providing quality solid waste services to the County and will require no learning curve.
- ✓ **We are a collaborative firm who efficiently works together with other consultants to achieve the County's goals.** HDR maintains excellent working relationships with County staff and the other engineering consultants who support the County. For this project, we have collaborated with other firms who have specific knowledge of the County's Program. In the **Project Team section** of our proposal, we include specialized personnel to provide continuity in support and expertise. Also, we will coordinate seamlessly with other firms, as needed, to support the County's needs.
- ✓ **We have a full-service, experienced team of solid waste engineering and planning experts.** HDR is a leader in solid waste consulting services in engineering, regulatory compliance and planning in Florida. Our Organization Chart, within the **Project Team section** of this proposal, illustrates the diversity, depth and strength of our team. The team presented also actively works together on solid waste projects throughout the State. As your Project Manager, Mark Roberts, PE, leads this highly-qualified team of professionals to continue successful delivery of quality solid waste services. Mark has also successfully managed solid waste projects for the County, coordinated projects with County staff, and maintains a detailed understanding of the County's program and facilities.
- ✓ **We provide innovative and cost saving solutions to solid waste management system issues.** HDR delivers nationwide expertise identifying and applying potential cost saving techniques in all areas of solid waste management such as landfill engineering, organic waste composting, anaerobic digestion, leachate management and treatment, landfill gas collection and landfill gas to energy programs. In the **Prior Experience section** of our proposal, we provide similar and recent cases of the continuing services we successfully deliver to Florida clients.



✓ **We are a local firm.** At HDR, we maintain our commitment to be a local engineer for clients in the FDEP's Southwest District. We maintain a multi-office approach with our team based primarily out of Tampa, Jacksonville, and Orlando. We have two offices within 1.5 hours of the County and have provided field personnel on past solid waste projects for the County directly from our local offices so as not to incur high travel costs. We are also well positioned to coordinate with the FDEP's Southwest District in Tampa and Headquarters in Tallahassee regularly. As our Project Manager, Mark participates regularly in FDEP Information Exchanges and has been involved in FDEP Rule Making Committees over the last 25 years.

HDR is dedicated to provide Hernando County the best value for all services and finding opportunities to achieve the highest level of environmental protection and economic benefits for your solid waste program. As the leaders of our team, we want to express our sincere commitment to Hernando County. We will make sure that all issues are communicated clearly, deliverables are reviewed thoroughly, and value is realized at every opportunity. We respectfully request consideration to serve Hernando County for Continuing Landfill Engineering Services. As requested, our letter has been signed by an individual authorized to make representation and negotiate for HDR, Katie Duty. Upon selection of this contract, we commit to negotiate in good faith. If you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,

HDR Engineering, Inc.

Mark Roberts, PE
Project Manager / Vice President

904.598.8979 / Mark.Roberts@hdrinc.com
76 South Laura Street, Suite 1600
Jacksonville, FL 32202

Katie E. Duty
Vice President

813.282.2352 / Katie.Duty@hdrinc.com
4830 W Kennedy Blvd, Suite 400
Tampa, FL 33609

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2 PROJECT TEAM

HDR has assembled a team of local and regional experts, highly dedicated and experienced to assist the County with the tasks that may arise as part of this contract. The proposed HDR Team has combined expertise in every aspect of solid waste engineering and planning. Our collaborative expertise will serve to guide the County through the variety of scope items in an innovative and effective manner. We have provided an organization chart on page 5, as well as two-page resumes for each team member in the pages that follow.



HDR is an employee-owned corporation. For more 106+ years, we have partnered with our clients to push boundaries and shape communities. With more than 11,000 employees in more than 200 locations around the world, we think global and act local. Our Florida staff provides engineering and planning services for clients throughout the state. HDR employs a multi-disciplined engineering staff of over 400 in Florida, with nearly half located in the Tampa and Sarasota offices.

For this contract, HDR will be teaming with three subconsultants: Ardaman and Associates, Inc., JHS Environmental Engineering, and Raftelis.



Ardaman and Associates, Inc.

Ardaman & Associates, Inc. (Ardaman) is a geotechnical drilling and engineering company headquartered in Orlando, Florida, with offices in Tampa and Sarasota. HDR and Ardaman have a long history of working together on important projects throughout Florida. The proximity of the Ardaman offices to Hernando County will provide for responsive and efficient geotechnical services for the project. For this contract, Ardaman will provide subsurface investigations and materials testing as it may arise throughout the contract.



JHS Environmental Engineering

JHS Environmental Engineering (JHS) is a solution-oriented consulting firm based in Wekiva Springs, Florida. JHS ensures a solution that is the most environmentally sound, the most cost-effective, and the most socially responsible. In a time where regulations are increasingly stringent and ever complicated, JHS bridges the gap between science and funding, compliance and understanding. JHS is familiar with Hernando County as they have introduced a municipal solid waste (MSW) composting facility to decrease the solid waste input into Hernando County landfills, increasing the County's total recycling to 55%.

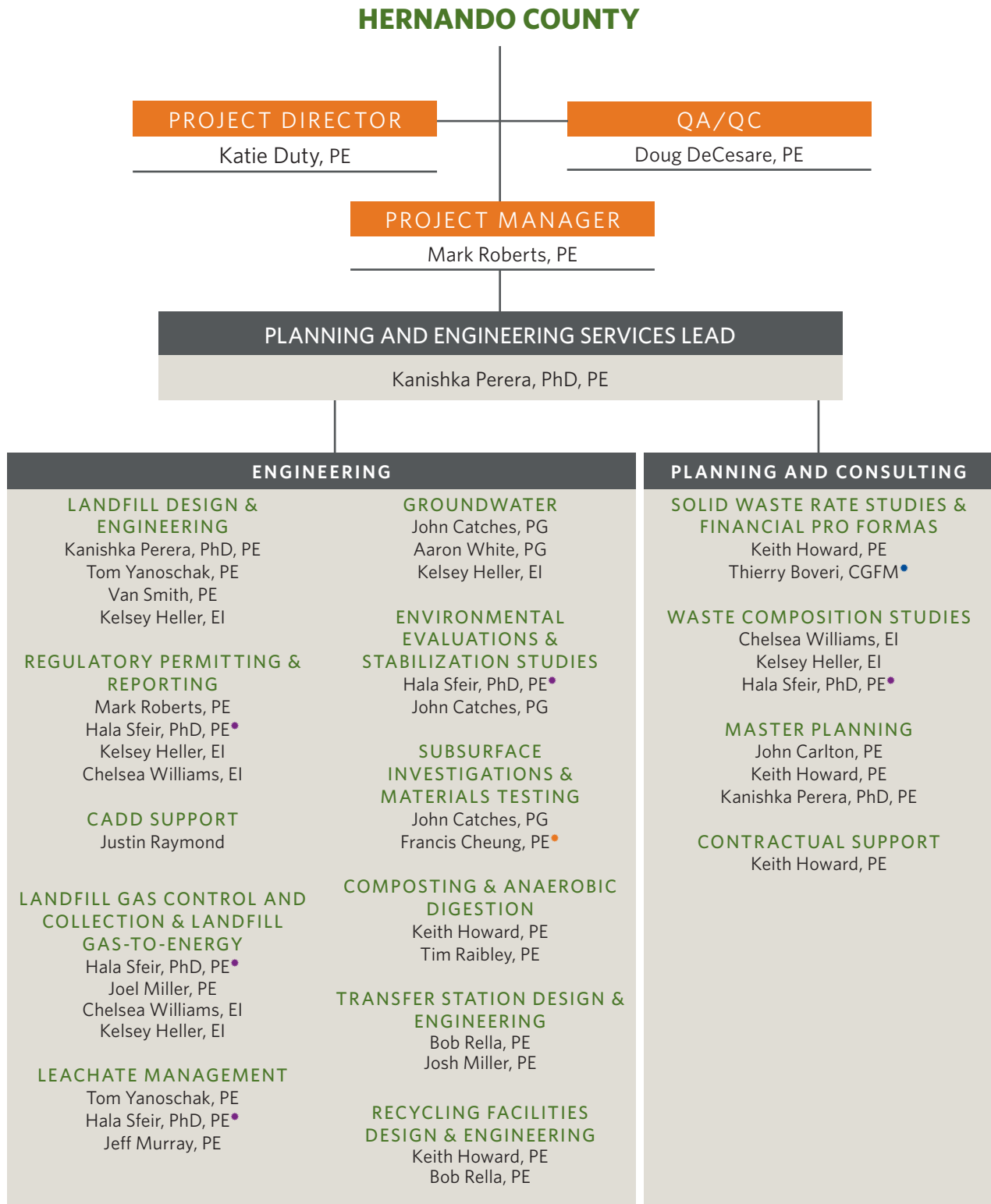


Raftelis

Raftelis, formally Public Resources Management Group (PRMG), is an established utility financial and management consulting firm that specializes in financial and strategic planning and management consulting services to the public utility sector with clients in Florida and throughout the United States. Raftelis' office is located close by in Maitland, Florida. The firm's personnel have extensive experience in utility rates, finance, economics, accounting, cost of service analysis, impact fees, and utility resource planning, which brings a unique combination of skills and experience to serve their clients with the utmost level of quality.



Organizational Chart



Key: [•]JHS Environmental Engineering [•]Ardaman and Associates [•]Raftelis



Mark Roberts, PE

Project Manager

RELEVANCE TO HERNANDO COUNTY

- Successful project management record; brings a national perspective on successful solutions
- Wide range of technical experience in all areas listed in the RFQ, and has a strong understanding of the Northwest Waste Management Facility

Mark has more than 33 years experience in solid waste engineering. He is an HDR "Senior Professional Associate" as an expert in regard to the design, permitting, and construction of solid waste landfill systems. He is experienced in designing and permitting landfill bottom liners and closure systems, landfill stormwater runoff and treatment systems, and leachate collection and treatment systems. Mark has been a leader in landfill mining, bioreactor landfills, mechanically stabilized walls, exposed geomembrane covers, and solar energy caps. He continues to work on the forefront of innovative solid waste design and permitting to enable clients to find opportunities in achieving the highest level of environmental protection and economic benefits in an ever-changing industry.

EDUCATION

ME, Environmental Engineering, University of Florida

BA, History/English
Centre College

PROFESSIONAL REGISTRATIONS

Professional Engineer, FL,
No. 54187

Professional Engineer, NE,
No. 8618

Professional Engineer, IL,
No. 062062011

Professional Engineer, MA,
No. 6177279957

Professional Engineer, KY,
No. 28731

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of
North America

INDUSTRY TENURE

33 years

HDR TENURE

17 years

AVAILABILITY FOR HERNANDO COUNTY

70%

Hernando County, Northwest Waste Management Facility, General Engineering Services, Brooksville, FL

Senior Technical Engineer. From 2009 to 2013, HDR provided solid waste professional engineering support for landfill closure, landfill leachate control and collection, landfill gas collection and control, and landfill master planning. HDR prepared an Environmental Resource Permit (ERP) modification application to modify the NWWMF's stormwater control. HDR combined all the existing ERPs into one facility-wide permit and addressed leachate drainage issues in Cells 3C and 3D sumps and applied for the FDEP permit modification and oversaw construction of sump repairs. HDR prepared annual landfill capacity reports and site life updates for the NWWMF and prepared an operations permit renewal application of the active Northwest C&D Disposal Facility in 2009 and 2010. HDR addressed the NWWMF's Clean Air Act-NSPS requirements for landfill gas generation. HDR worked with the USEPA and FDEP to provide a smooth permitting process for acquiring the facility's Title V air permit.

Hernando County, Landfill Master Plan Northwest Waste Management Facility, Brooksville, FL

Senior Technical Engineer. HDR prepared an update of the NWWMF master plan design. HDR worked closely with landfill staff to make the most efficient use of potential airspace. The plan encompassed the future of solid waste disposal activities for the 300-acre property including citizen's waste drop off areas, recycling, MSW disposal, C&D disposal and borrow soil. The plan included cost projects for expansions and phased closures and addressed concerns regarding geotechnical analysis and potential regulatory concerns.

Hernando County, Landfill Closure Northwest Waste Management Facility, Brooksville, FL

Senior Technical Engineer. HDR assisted the County with the 19.5-acre partial closure for the Northwest Waste Management Facility (NWWMF). The Phase I Landfill Closure project included the design and construction of a 40-mil LLDPE/geocomposite closure cap, two feet of cover soil from onsite sources, gabion downchutes and an expansion of the landfill gas collection system. The permit application included veneer slope stability analysis, road stability analysis, modifications to the stormwater control system, geocomposite drainage evaluation and technical specifications.

Tomoka Farms Road Phase II Landfill Area 4 Expansion Design and Permitting, Volusia County, FL Daytona Beach, FL

Project Manager. HDR is currently providing complete design, permitting, bid support and construction management services for a 15-acre expansion for a Subtitle D landfill in Florida. The landfill expansion includes a double liner system and a dewatering design due to high groundwater levels in the project area. The design included the termination and transition design from the existing Area 3 expansion to the last horizontal expansion area of the Phase II landfill, Area 4.

Bay County, Steelfield Road Class I Landfill On-Site Leachate Treatment Feasibility Study and Preliminary Design, Panama City Beach, FL

Project Manager. HDR is currently reviewing onsite treatment options based on the landfill's leachate characteristics to meet the FDEP's requirements for groundwater. HDR is investigating the feasibility of re-purposing a wastewater treatment plant that has been

MARK ROBERTS, PE (CONTINUED)

treating municipal wastewater and is going off-line. The Bay County Solid Waste Department has the opportunity to move it to the landfill site to help treat landfill leachate. HDR is working with the County to determine what additional treatment may be necessary to meet the FDEP requirement for discharge into a rapid infiltration basin (RIB) on site.

Republic Services of Florida, Cedar Trail Landfill Valley Fill Expansion Design and Permitting, Bartow, FL

Project Manager. HDR provided complete design and permitting services to prepare an FDEP permit application for the Cedar Trail Landfill Valley Fill Expansion located between the lined area of the Class 1 landfill, the lined areas of the Class III landfill and the unlined area of the Class III landfill. The work included the preparation of permit application documents that meet the requirements of FAC 62-701 for design, operation, closure, and post-closure of the valley fill area.

Bay County, Storm Water Design Improvements for Steelfield Road Solid Waste Disposal Facility, Panama City Beach, FL

Project Manager. HDR was contracted to provide professional engineering services associated with the Steelfield Road Landfill for a creek crossing repair and improvements. Due to major storms, damage was sustained at two sections of the landfill perimeter road at creek crossings, and at nearby surface water sampling locations. The landfill intends to use the perimeter road at the creek crossing areas as a future site access for waste vehicles entering the site to the new expansion areas of the landfill facility.

Santa Rosa County, Central Landfill Gas Collection System for LFG Conversion to CNG, Milton, FL

Project Manager. HDR designed, permitted, and provided construction oversight and certification services for Santa Rosa County's Central Landfill in Milton, Florida for a landfill gas collection and control system. The system consists of 30 vertical gas extraction wells, a horizontal toe-drain gas collection well, gas header and lateral piping, gas condensate controls, blowers/compressors, and the flare station. HDR also provided a landfill gas collection system operations and maintenance plan for the successful operation of system and has continued to provide on-site support and training since startup.

Santa Rosa County with the support of HDR is currently designing a system to convert their landfill gas (LFG) into a useful compressed natural gas (CNG) to power waste collection

vehicles at the site. HDR is responsible for complete engineering services from planning, permitting, and construction certification to convert the landfill gas into CNG and provide a fueling station located near the landfill's scale-house. As part of the initial planning services, HDR developed a detailed CNG cost estimate and financial analysis.

Miami-Dade County, Solid Waste Master Plan, Miami, FL

Technical Advisor. Miami-Dade County and HDR engaged in a planning process to chart the path of solid waste management for a 50 year period to ensure long-term, environmentally safe and economical handling, recycling and disposal of the County's solid waste. The planning process was performed under two phases, Phase I was performed with a goal of identifying short and long-term solid waste management needs and to identify alternatives to meet those needs. During Phase II, the Planning Team worked closely with a Solid Waste Advisory Committee (SWAC) to develop possible waste management scenarios, prepare a financial forecast and analyze the Sustainable Return on Investment (SROI) for each scenario, and develop an implementation plan for the selected scenario.

Escambia County, Perdido Landfill Phasing and Capital Improvements Plan, Cantonment, FL

Project Manager. HDR was retained to prepare the 2014 Perdido Landfill Volume Calculations report to determine the volume of airspace consumed over the previous year's operations and measure remaining permitted airspace, and estimate the future remaining site life. HDR prepared a capital project plan to estimate the future expense schedule for long-term planning over the next 10 years and the next phases of future landfill expansion. HDR provided fill staging plans and provided estimates of approximate costs associated with each stage of development that can be used for future capital budgeting purposes. The report consisted of cost estimates and drawings summarizing each construction phase, air space availability, landfilling period, associated landfill mining activity, and approximate construction periods. HDR updated the capital improvement project worksheet to forecast Escambia County's estimated annual funding requirements.



Doug DeCesare, PE

QA/QC

RELEVANCE TO HERNANDO COUNTY

- HDR's national leader in solid waste management engineering
- Nationally recognized expert in leachate collection, gas system and stormwater management
- Leads a team of Solid Waste Design Quality Review Specialists

Doug is HDR's Waste Sector Director and is experienced in a wide variety of solid waste, and environmental projects, including transfer station permitting, MSW, and C&D landfill permitting and design, leachate collection system design and treatment, MSW, and C&D landfill closure design, MSW leachate recirculation system design, MSW landfill gas collection system design, storm water management design, construction administration, and construction quality assurance. For 26 years, Doug has been involved in all aspects of landfills from operations, permitting, design, and construction and understands how the design can impact operations and construction. Doug will provide expert advisory services for this project.

EDUCATION

MS, Civil Engineering, North Carolina State University, 2002

PROFESSIONAL REGISTRATIONS

Professional Engineer, WY, No. 14738

Professional Engineer, IA, No. 21443

Professional Engineer, NE, No. E-14357

Professional Engineer, CO, No. 0051341

Professional Engineer, VA, No. 038558

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of North America (SWANA), Member

INDUSTRY TENURE

22 years

HDR TENURE

20 years

AVAILABILITY FOR HERNANDO COUNTY

40%

Lee-Hendry Landfill Master Plan and Expansion, Lee County, FL

Project Task Manager. HDR is providing professional consulting and engineering services, including design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems.

Larimer County Public Works, Regional Wasteshed Planning Study and Comprehensive Solid Waste Engineering Services, Larimer County, CO

Project Manager. HDR was retained to assist Larimer County and the North Front Range Regional Wasteshed Planning Coalition with the development of a long-term sustainable solid waste management system. Following the evaluation and through the adoption of the Solid Waste Infrastructure Master Plan, the County is in the process of implementing the infrastructure for the future including a transfer station, new landfill, compost facility (yard and food waste), and a construction and demolition debris processing facility. HDR is currently providing the design and permitting services for the transfer station and the landfill.

Landfill Master Plan, City of Billings, MT

Project Manager. HDR was requested to update the City of Billings Master Plan for the operations of the landfill. HDR incorporated existing changes to the landfill operation, integrated the Landfill Drop-off Facility, optimized the life of the landfill asset, and provided a vision for the management of the landfill site.

City of Sioux Falls, Solid Waste Management Master Plan, Sioux Falls SD

Project Manager. The City of Sioux Falls, South Dakota retained HDR to assist them with developing a road map for the future of their

solid waste management system. The City wanted to look down the road and determine if what may not make sense today, may make sense 30-40 years from now. As such, the goal of the Solid Waste Management Master Plan (SWMMP) is to determine if continued landfilling is going to remain as their core business or invest in an alternative emerging technology. Simultaneously, the existing programs and facilities of the City were evaluated for efficiencies and opportunities for a more comprehensive and integrated waste management system.

DMASWA, Master Site Development Plan, Dubuque, IA

Project Manager. Metropolitan Area Solid Waste Agency (DMASWA) retained HDR to assist them with the planning of their landfill facility. With the landfill having a permitted capacity of over 50 years, DMASWA realized a need for a master plan regarding the infrastructure of the facility. Aged facilities, site constraints and challenges, and the potential loss of the existing entrance due to Iowa Department of Transportation plans, there became a need to improve site operations and facilities now and in the future. HDR worked with DMASWA to identify short-term and long-term needs and evaluated operations in developing a master site development plan that included new scales and scale house, residential drop off areas, materials recovery facility, education center, landfill gas to energy facility, and a compost facility. As a result of the master site development planning process, a short-term plan was developed that included an additional scale house improvements, better queuing, a new maintenance building, and a small vehicle user area. Design of these short-term facilities is currently underway.



KATIE DUTY, PE

PROJECT PRINCIPAL

Katie is a Vice President of HDR and serves as the Florida Area Operations Manager. She has broad-based experience in civil engineering across the spectrum of water, wastewater, and water resources infrastructure. Her strengths include team leadership, project management, quality control, preparation of plans and specifications, cost estimating, and construction support. Katie has led teams both large and small for design and evaluation projects related to planning and infrastructure design for municipal, state, and federal clients. She has most recently served as the Program Manager for all of the projects associated with the overall design and construction of the \$500-million C-44 Reservoir and Stormwater Treatment Area (STA) Project being built by both the South Florida Water Management District (SFWMD) and the US Army Corps of Engineers (USACE).

EDUCATION

BS, Civil Engineering,
Stevens Institute
of Technology

PROFESSIONAL REGISTRATIONS

Professional Engineer: FL

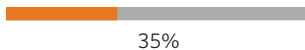
INDUSTRY TENURE

22 years

HDR TENURE

20 years

AVAILABILITY FOR HERNANDO COUNTY



SFWMD, C-44 Reservoir and Stormwater Treatment Area (STA) Project, Various Locations, FL

Project Manager. Home to more than 4,300 species of plants and animals, and supporting more than \$730 million in annual economic impact, the ecologically vital Southern Indian River Lagoon region has been inundated with freshwater and pollutants. To reverse the harm on these sensitive ecosystems, the South Florida Water Management District (SFWMD) and U.S. Army Corps of Engineers (USACE) are constructing the C-44 Reservoir and Stormwater Treatment Area (STA). As the first part of the Indian River Lagoon South (IRL-S) Restoration Project and part of the greater Comprehensive Everglades Restoration Plan (CERP), the C-44 STA project will reverse the damaging effects of pollution and unnaturally large freshwater discharges into these ecologically vital water bodies.

Peace River Manasota Regional Supply Authority, General Professional Engineering Services, Arcadia, FL

Project Manager and Principal-in-Charge. HDR has provided multi-disciplinary engineering services to the Authority under a general engineering services contract since May 2005. Over 50 work orders have been authorized under this contract. Assignments have included HDR services for water supply planning, wellfield development investigations, treatment process troubleshooting, transmission system hydraulic modeling, geotechnical engineering for stabilization, and design services related to master planning and Capital Improvement Plan (CIP) development. Katie has served in a variety of roles on this contract including providing daily project leadership for several design projects, as well as contract-level leadership to the Authority on behalf of HDR's commitment to high-quality delivery.

Bass Road Landfill Valuation, Osceola County, FL

Project Engineer. The County owned and operated a construction and demolition landfill and was considering selling it or outsourcing the operations. The HDR team provided a review of operational data and information, conducted an inspection of the facility, and provided recommendations to the County as to the value of the land landfill and revenue from the facility.

City of Atlanta North Fork Storage Tank & Pump Station, Atlanta, GA

Deputy Project Manager. HDR is providing design, permitting, and construction phase services for the North Fork Storage Tank and wet weather pump station. The project includes a 15-MG rectangular reinforced concrete equalization storage tank, 75-mgd influent pumping station, odor control, flushing/cleaning, and related appurtenances. The project also includes a diversion structure, dewatering structure, gravity/microtunneled 48- and 60-inch collector sewers, and an equipment control building.

Gainesville Regional Utilities (GRU), Professional Architectural and Engineering Consulting Services: 36-inch Force Main Condition Assessment, Gainesville, FL

Principal-in-Charge. HDR was tasked with evaluating GRU's existing force main along 34th Street and Archer Road, which consists primarily of 24-, 30-, and 36-inch ductile iron pipe. HDR reviewed as-built drawings, system information, past force main evaluation reports, etc. and developed a condition assessment work plan report. HDR made recommendations for the condition assessment of the force main and assist GRU in procuring a contractor to perform the condition assessment work. Katie supported the Project Manager and project delivery team in bringing the right expertise to the City and exceeding expectations in the field work associated with the condition assessment.



Kanishka Perera, PHD, PE

Planning and Engineering Services Lead

RELEVANCE TO HERNANDO COUNTY

- Award-winning engineer and HDR national leader in solid waste engineering
- Expertise in designing, permitting, and constructing waste systems throughout Florida, including the partial closure of the Class I landfill at the Northwest Waste Management Facility

Kanishka has extensive experience in landfill management, siting, permitting, design, closure, geotechnical analysis, stormwater analysis, coal combustion residue (CCR) management and construction oversight. Technical skills involve expertise in numerical modeling in landfill gas migration, environmental auditing, slope and seismic stability analysis, foundation analysis, MSE wall design, surface water modeling, exposed geomembrane cover design, statistical analysis of groundwater monitoring data and use of Geographic Information System (GIS) in various environmental applications for database development, spatial analysis and display all forms of geographically referenced information.

EDUCATION

PhD, Civil/Environmental Engineering, University of Calgary

ME, Environmental Engineering, Asian Institute of Technology

BS, Civil Engineering, University of Moratuwa

PROFESSIONAL REGISTRATIONS

Professional Engineer, FL, No. 67647

Professional Engineer, GA, No. PE035533

Professional Engineer, OH, No. 70230

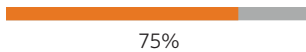
INDUSTRY TENURE

22 years

HDR TENURE

16 years

AVAILABILITY FOR HERNANDO COUNTY



Hernando County, Northwest Waste Management Facility, General Engineering Services, Brooksville, FL

Technical Lead. HDR provided solid waste professional engineering support for landfill closure, landfill leachate control and collection, landfill gas collection and control, and landfill master planning. HDR prepared an ERP modification application to modify the NWWMF's stormwater control. HDR combined all the existing ERPs into one facility-wide permit and addressed leachate drainage issues in Cells 3C and 3D sumps and applied for the FDEP permit modification and oversaw construction of sump repairs. HDR prepared annual landfill capacity reports and site life updates for the NWWMF and prepared an operations permit renewal application of the active Northwest C&D Disposal Facility in 2009 and 2010. HDR addressed the NWWMF's Clean Air Act-NSPS requirements for landfill gas generation. HDR worked with the USEPA and FDEP to provide a smooth permitting process for acquiring the facility's Title V air permit.

Hernando County, Landfill Master Plan Northwest Waste Management Facility, Brooksville, FL

Technical Lead. HDR prepared an update of the NWWMF master plan design. HDR worked closely with landfill staff to make the most efficient use of potential airspace. The plan encompassed the future of solid waste disposal activities for the 300-acre property including citizen's waste drop off areas, recycling, MSW disposal, C&D disposal and borrow soil. The plan included cost projects for expansions and phased closures and addressed concerns regarding geotechnical analysis and potential regulatory concerns.

Hernando County, Landfill Closure Northwest Waste Management Facility, Brooksville, FL

Technical Engineer. HDR assisted the County with the 19.5-acre partial closure for the NWWMF. The Phase I Landfill Closure project included the design and construction of a 40-mil LLDPE/geocomposite closure cap, two feet of cover soil from onsite sources, gabion downchutes and an expansion of the landfill gas collection system. The permit application included veneer slope stability analysis, road stability analysis, modifications to the stormwater control system, geocomposite drainage evaluation and technical specifications.

Volusia County, Tomoka Farms Road Landfill, North Cell Phase II Expansion, Area 3, Port Orange, FL

Senior Project Engineer. Preparation of construction level drawings for 12-acre cell expansion for the Class 1 landfill. The work involved design of base grades, liner tie-in, geosynthetic evaluation, liner system analysis, preparation of construction specifications, client meetings and coordination and preparation of Engineer's cost estimate.

Escambia County, Perdido Landfill Section 5 Expansion, Cantonment, FL

Senior Project Engineer. Project included the 65-acre lateral and vertical expansion of the Perdido Class I landfill using a Mechanically Stabilized Earth (MSE) berm and landfill mining. The landfill is expected to provide more than 20 years of capacity. The FDEP permit application included landfill grading and phasing drawings, landfill mining, liner system analysis, geotechnical analysis, wetland restoration, vertical expansion, HELP modeling and preparation of an engineering report. In addition, work involved design of stormwater control and conveyance structures and preparation of ERP application to be submitted to Northwest Florida Water Management District.



Tom Yanoschak, PE

Landfill Design & Engineering; Leachate Management

RELEVANCE TO HERNANDO COUNTY

- Performed QC for HDR's permit, construction design and CQA of the Northwest Waste Management Facility Class I landfill partial closure
- Provided engineering and planning services to clients in FDEP's Southwest District for over 20 years

Tom has nearly 40 years of experience, with expertise in landfill options evaluation and master planning, municipal solid waste and CCP landfill design and permitting. He has also provided engineer of record services during landfill construction projects, landfill closure projects, civil site design, geotechnical engineering, environmental projects, hydrogeological studies and water resources engineering.

EDUCATION

MS, Civil Engineering, North Carolina State University

Bachelor of Science, Civil Engineering, North Carolina State University

REGISTRATIONS

Professional Engineer, FL, No. 44200

Professional Engineer, GA, No. 25776

Professional Engineer, NC, No. 18887

Professional Engineer, SC, No. 15700

Professional Engineer, VA, No. 043303

PROFESSIONAL MEMBERSHIPS

American Society of Civil Engineers (ASCE), Member, 1985-2015

Solid Waste Association of North America (SWANA), Member, 2000-2015

American Academy of Environmental Engineers, Member, 2005-2015

INDUSTRY TENURE

39 years

HDR TENURE

18 years

AVAILABILITY FOR HERNANDO COUNTY

60%

Sarasota County, Phase II Class I Landfill Cell Design and Construction, Sarasota County, FL

Project Manager, Certifying Engineer. Provided Sarasota County with design, permitting, and bidding services associated with Phase II of the Central County Solid Waste Disposal Complex. Provided the County with Engineer of Record services during construction. The Phase II expansion consisted of approximately 54 acres of double synthetically lined Class I waste disposal area using a gravity cell drainage system that flows to a single leachate pump station. Phase II was designed for potential future leachate recirculation or bioreactor operations by considering increased waste densities and leachate generation in the design that would be associated with such operations. Included in this project is a 9,700 lf leachate forcemain.

Sarasota County BOCC, Phase I Closure Design, Permitting, Bidding, and Engineer of Record Services, Central County Solid Waste Disposal Complex, Nokomis, FL

Project Engineer/Engineer of Record. Provided Sarasota County with design, permitting, and bidding services associated with closure of Phase I of the Central County Solid Waste Disposal Complex in Sarasota, Florida. Project included a temporary final closure of the south slope using an exposed TPO geomembrane. Performed stability analyses demonstrating the suitability of the proposed final cover systems.

Winston-Salem Forsyth County Utilities, Hanes Mill Road Landfill, Winston-Salem, NC

Senior Project Engineer. Tom is responsible for the design and ongoing permitting of the expansion of the Hanes Mill Road Landfill using a MSE wall. This expansion, which will be the first MSE wall expansion permitted for a MSW landfill in North Carolina, allows a substantial increase in waste disposal capacity

at the facility with minimal increase in the lined landfill footprint. The MSE wall will be approximately 5,300 feet long and typically 40 feet high. The expansion allows continued operation of the facility while minimizing impacts to adjacent environmentally sensitive areas, existing infrastructure, and nearby communities.

Southeastern Public Service Authority, Landfill Expansion and Closure, Suffolk, VA

Senior Project Engineer. Tom assisted with the development of construction drawings and specifications for the 25 acre Cell VI, Phase 2 inward gradient expansion at the Regional Landfill. Tom was also responsible for preparing permitting and construction documents for the 106 acre Cells I through IV landfill closure as well as closure certification documents and annual post-closure inspections. He was also responsible for successfully permitting the future 56 acre Cell VII inward gradient landfill expansion. Currently, Tom is assisting with the preparation of permitting documents for the future 47 acre Cell VIII and 46 acre Cell IX of the landfill.

Sarasota County BOCC, Phase II Expansion Preliminary Design, Central County Solid Waste Disposal Complex, Nokomis, FL

Project Manager. Prepared preliminary design and analysis for various options for the Phase II landfill expansion to enable the Client to determine the best design elements to meet his needs. Provided recommendations that were incorporated within the full design and permitting project.

Sarasota County BOCC, Landfill Borrow Study, Central County Solid Waste Disposal Complex, Nokomis, FL

Project Manager. Evaluated construction and operational borrow soil needs over the lifetime of the 295 acre Class I MSW landfill which spans approximately 50 years.



Van Smith, PE

Landfill Design & Engineering

Van is a solid waste engineer with nine years of experience across the industry, including design and permitting of landfills, landfill closure, CQA, environmental monitoring sampling and reporting, hydrogeology, and preparation of construction bid packages (drawings and specifications).

EDUCATION

MS, Environmental Engineering,
University of Florida

BS, Environmental Engineering,
University of Florida

REGISTRATIONS

Professional Engineer: CO

INDUSTRY TENURE

9 years

HDR TENURE

< 1 year

AVAILABILITY FOR HERNANDO COUNTY

80%

Lee-Hendry Landfill Master Plan and Expansion Lee County, FL

Technical Lead. HDR is providing professional consulting and engineering services, including design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems.

DC Miles Jamison Expansion, Dorchester County, SC

Technical Lead. HDR is providing engineering and design services necessary for the preparation of plans, and cost estimates to implement infrastructure improvements and structural upgrades at the Miles Jamison Convenience Site.

North Dade County Landfill and Transfer Station Facilities Engineering, Miami-Dade County, FL

Technical Lead. HDR is providing continuing engineering services at the North Dade Landfill, Northeast Transfer Station, Central Transfer Station, and the 58th Street Closed Landfill.

Custer County Landfill, Custer County, CO

Project Manager. Van led the Engineering Design and Operations Plan (EDOP) preparation for the expansion of the Custer County Landfill. He was responsible for the design of excavation grades and final cover grades with constraints supplied by the client. Other tasks included various geotechnical and hydraulic calculations, supporting the landfill and stormwater collection control system, and compiling the permit drawing package.

Multiple Front Range Landfills, Waste Management, CO

Project Manager. Van led the modification of the Engineering Design and Operations Plan (EDOP) to include a composite liner design option consisting of a geosynthetic clay liner combined with a HDPE liner for three Waste Management Landfill Facilities on Colorado's Front Range. EDOP modification included a liner equivalency demonstration, a revised construction quality assurance plan, and revised permit drawings. The equivalency demonstration was supported by HELP modelling, MULTIMED model, and slope stability analyses performed for the composite liner system.

Teton County Transfer Station, Teton County, WY

Project Manager. Van successfully led the preparation of a lifetime permit document for the Teton County Transfer Station to reflect current operational practices, existing infrastructure, and to meet updated regulatory requirements.

City of Casper Balefill, Casper, WY

Project Manager. Van led the preparation of a conceptual design plan and cost estimate for remedial actions to address exceedances of landfill gas concentrations at the facility property boundary of the old landfill area of the City of Casper Balefill. Proposed remedial actions included an earthworks program to promote positive stormwater drainage across the site and a passive landfill gas vent trench at the property boundary.

San Luis Valley Regional Landfill, SLVRSWA, CO

Project Manager. Van led the update of the EDOP to reflect current design and operational practices at the San Luis Valley Regional Landfill. Other tasks included various geotechnical and hydraulic calculations supporting the landfill, leachate collection system, and stormwater control design.

Multiple Small Landfills, CDPHE, CO

Project Manager. Van prepared bid documents for the closure of six small municipal landfills in southeastern Colorado. Van also assisted with the field investigation to characterize site soils and site conditions at the landfill sites. Bid document preparation included the design of water balance final cover systems, the design of closure grading plans, compiling a construction level drawing package, and the preparation of technical specifications.

North Weld Landfill, Waste Management, CO

Project Engineer. Van assisted with an EDOP update for the expansion of the North Weld Landfill. He assisted with the design of liner grades and final cover grades with constraints supplied by the client. Other tasks included various geotechnical and hydraulic calculations, supporting the landfill and leachate collection system design, and compiling the permit drawing package.



Kelsey Heller, EI

Landfill Design & Engineering | Regulatory Permitting | Landfill Gas | Groundwater | Waste Composition Studies

Kelsey is a Civil EI and provides a balance of technical report writing, developing permit applications, environmental compliance and financial assurance for landfills, with time spent on-site, conducting Construction Quality Assurance (CQA). Kelsey has worked on a number of landfill gas system design, monitoring and construction projects, as well as landfill remediation gas system design, construction, operation and monitoring. She is also working with clients on innovative horizontal gas well system design and installation. Kelsey is currently working on landfill leachate treatment system options to enable on-site treatment and discharge.

EDUCATION

BS, Civil Engineering,
University of Florida

REGISTRATIONS

Engineer-in-Training: FL

INDUSTRY TENURE

1 year

HDR TENURE

1 year

AVAILABILITY FOR HERNANDO COUNTY

90%

Lee-Hendry Landfill Master Plan and Expansion Lee County, FL

Project Engineer. HDR is providing professional consulting and engineering services, including design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems.

Volusia County, Tomoka Farms Road Landfill, Phase 8 LFGCCS CQA, Port Orange, FL

CQA Observer. Kelsey provided CQA services for the Tomoka Farms Road Landfill Gas Control Collection System CQA Phase 8 for Tomoka Farms Road Landfill. The project included the installation of vertical gas collection wells, horizontal gas collection wells, and piping.

Volusia County, Tomoka Farms Road Landfill Leachate Wastewater Treatment Feasibility Study, Port Orange, FL

Project Engineer. HDR was selected to provide technical assistance to improve the quality of the current leachate pre-treatment process that is used to manage the Landfill's leachate generation. HDR also was tasked to update and submit the leachate pretreatment and discharge facility's wastewater treatment permit renewal to the FDEP. Santa Rosa County Central Landfill Passive Gas

Vent and Monitoring Probe Installation, Milton, FL

Project Engineer and CQA. HDR provided design, permitting, and construction certification for a landfill gas remediation system to control off-site migration of landfill gas.

Santa Rosa County Tier II Testing for Title V Air Permit, Milton, FL

Project Engineer. HDR conducted the Tier II Testing for Santa Rosa County Central Landfill as part of the 5-year Title V Permit renewal. As part of the project, Kelsey performed sample collection of landfill gas, adhering to the requirements in the FDEP permit requirements.

NON-HDR EXPERIENCE

Land Design, 2019 May-August, Intern, Orlando, FL

Assisted in the creation of several multifamily housing projects, aided in the design of roadways and layouts within select communities and researched permits with consideration of environmental policy. Enhanced AutoCAD skills through development of project layouts and on-site utilities plans. Developed skills in communication and interdisciplinary collaboration through a week-long charrette.

Meridian Engineering, LLC, 2017 May-August, Intern, Key West, FL

Developed various AutoCAD drawings for residential projects. Compiled and inputted specifications into the SpecsIntact database, software used for government projects. Attended multiple iterations of meetings to discuss the construction plans and witnessed the delegation of roles and responsibilities for each team member.



Hala Sfeir, PHD, PE

Regulatory Permitting | Landfill Gas | Leachate Management | Environmental Evaluations | Waste Composition Studies

Hala has 25 years of experience working on environmental engineering design and various environmental state and federal compliance projects. Assisted clients to navigate the SRF and grant processes by researching available funding options and preparing applications. Developed environmental guidelines for conducting waste characterization studies that have gained acceptance from the Florida Department of Environmental Protection and Massachusetts Department of Environmental Protection. Participate in several environmental Technical Advisory Groups. Also, an expert in the area of emergency response, site remediation, particularly with respect to the degradation of halogenated aliphatic compounds & provided support on auditing & compliance projects, decommissioning & decontamination projects, Phase I and Phase II investigations, site monitoring & corrective actions projects.

EDUCATION

Ph.D., Environmental Engineering, University of Central Florida

M.S. Environmental Engineering, University of Central Florida

B.S. Chemical Engineering, South Bank University, London, U.K.

REGISTRATIONS

Professional Engineer, 54083, FL

Envision Sustainability Professional, ISI, 2014

Project Management Professional PMP, 2015

INDUSTRY TENURE

25 year

AVAILABILITY FOR HERNANDO COUNTY

80%

Evaluation of Organic Waste Management, Hernando County, FL

Project Manager. The project investigated the potential of converting the existing organic waste program to one focused on renewable energy production and resource recovery, which is financially and environmentally beneficial to the County.

Waste Processing Alternatives, Hernando County, Florida

Project Manager. Responsibilities included applicability of the approach to Hernando County, evaluating the technical merits and the economic viability of the technology. The primary technologies evaluated were gasification & Material Recovery Facility with engineered fuels as the end product. Landfill Gas Generation Potential and Treatment Evaluation, Atlanta, GA, Miami Dade, Orange County, and Hernando County FL, Guam. Task Manager. Utilized a site-specific landfill gas generation model and evaluated landfill gas quality for pretreatment to meet local and national standards for direct connection to the natural gas grid.

Waste Composition Study, Broward County, Hernando County, Florida and Massachusetts

Project Manager. Implemented the state of Florida Guidelines for a Waste composition study by performing a comprehensive waste stream analysis that provided results with 90% confidence level and 10% precision to assist in a State-wide recycling program evaluation. Sewer I/I Rehabilitation, City of Sanford, Florida Project Manager. Evaluating the reduction in

Infiltration and Inflow (I/I) over several storm events using smoke testing, pump runs and the use of smart covers resulting from collection systems improvements and substantial reduction in river discharge. A comparison of wet season flow and I/I analysis was performed for all three storm events.

Evaluation of Leachate Pre-treatment, Collier County, Orange County and Hernando County, Florida

Project Manager. Evaluated leachate pre-treatment for the Solid Waste Facility to help meet local WWTP discharge limits and implemented a pilot study for pre-treatment feasibility.

Evaluation of the Impact of mixing Leachate and RO Reject Waste Streams for Deep Well Injection, Collier County, Florida

Project Manager. Performed treatability testing and chemical precipitation modeling to provide planning-level information on leachate management options. The treatability testing included aeration of the Master Lift Pump Station to evaluate removal of organics and ammonia - which may be considered to reduce surcharges if the leachate is to continue to be discharged to a publicly owned treatment works -and blending the leachate with reverse osmosis (RO) reject from the South County Regional Water Treatment Plant testing to evaluate the impact of mixing both waste streams with respect to increasing precipitation for deep well injection.



Chelsea Williams, EI

Regulatory Permitting & Reporting | Landfill Gas | Waste Composition Studies

RELEVANCE TO HERNANDO COUNTY

- Supports LFG permitting and reporting projects
- Provides assistance on landfill rate studies
- Experience with landfill gas sampling and analyses

Chelsea provides assistance to the solid waste engineering and planning group; she specializes in solid waste facility compliance and engineering. Areas of assistance include landfill permitting, report writing and production, landfill gas (LFG) collection calculations and evaluation, and water quality monitoring. Chelsea is located in the Orlando office and coordinates with Karam Singh on landfill gas collection projects in Florida and across the United States. Chelsea also supports Florida landfill permitting projects and has worked on municipal solid waste tipping fee rate studies.

EDUCATION

BS, Environmental Engineering, University of Central Florida

PROFESSIONAL REGISTRATIONS

EI Certification

INDUSTRY TENURE

8 years

HDR TENURE

7 years

AVAILABILITY FOR HERNANDO COUNTY

75%

Volusia County, Landfill Gas System Expansion, Volusia County, FL

HDR assisted the County Solid Waste Division to provide engineering support services for construction oversight and reporting for the gas system expansion. Chelsea was onsite to provide oversight and CQA services of work performed by the Contractor (SCS) and to provide assurance that the activities are performed in direct accordance with construction drawings and notes, and with the materials specified in the specifications and construction bid package. Chelsea also provided assurance that the Contractor is working in general accordance with well drilling, well repair and piping installation practices for LFG systems at Class I landfills in Florida. After field monitoring, Chelsea developed a construction certification report documenting the construction.

Hernando County, Landfill Expansion Phase 2, Hernando County, FL

HDR was retained by Hernando County to provide services for design and permitting of a new Class 1 waste disposal cell at the County's Northwest Waste Management Facility. Chelsea conducted field investigation pertaining to subsurface anomalies. Soil samples were observed in the field for karst conditions, gathered and sent to the lab for further testing.

Sarasota County, Landfill Gas System Expansion, Sarasota County, FL

HDR assisted the County Solid Waste Division to provide engineering support services for construction oversight and reporting for the gas system expansion. Chelsea was onsite to provide oversight and CQA services of work performed by the Contractor (SCS) and to provide assurance that the activities are performed in direct accordance with construction drawings and notes, and with the materials specified in the specifications and construction bid package. Chelsea also provided assurance that the Contractor is

working in general accordance with well drilling, well repair and piping installation practices for LFG systems at Class I landfills in Florida. After field monitoring, Chelsea developed a construction certification report documenting the construction.

S2Li, Lake County, Tier 2 NMOC, Lake County, FL

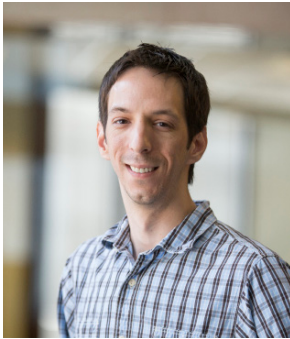
HDR was retained by S2Li to assist Lake County with Tier 2 site-specific sampling, analysis and reporting to prove that non-methane organic compound (NMOC) emissions are less than the threshold for an active gas collection and control system (GCCS) per state and federal regulations. Chelsea assisted with the development of the sampling plan, coordinated with the subcontractors, conducted landfill gas sampling at the Lake County Landfill, and prepared the final NMOC report.

MAS, SPSA GCCS Expansion, Suffolk, VA

HDR was retained by MAS to design future rehabilitation/expansion to the landfill gas collection and control system (GCCS) at the SPSA Regional Landfill. Chelsea assisted with the development of 60%, 90% and 100% design plans and specifications based on existing conditions, operational needs and effectiveness of the GCCS.

Hillsborough County, Consulting Engineers Report, Hillsborough County, FL

HDR was retained by Hillsborough County to conduct a Consulting Engineers Report to be included in the Point of Sale for issuance of financing vehicles for the development of the MRF. Chelsea performed an evaluation of the existing solid waste systems and prepared the draft Consulting Engineers Report.



Justin Raymond

CADD Support

RELEVANCE TO HERNANDO COUNTY

- HDR's Florida landfill design CAD leader with extensive expertise in Civil 3D CAD software
- Has supported landfill designs, LFG system designs, landfill storm water management designs, compost facility designs, and MRF layout designs

Justin has 16 years of CAD drafting experience and specializes in landfill design. His early career started in survey mapping and large-scale topographic and underground utility surveys at several different naval bases including locations in Jacksonville, FL at Mayport, NAS, and Blount Island; King's Bay Sub Base in Georgia; and Guantanamo Bay, Cuba. His most recent experience includes field calculations and topographic 3D surface modeling. At HDR, Justin has worked on countless landfill design projects, including Class I landfill expansion projects for Volusia County and Republic Services.

EDUCATION

ITT Technical Institute

INDUSTRY TENURE

16 years

HDR TENURE

6 years

AVAILABILITY FOR HERNANDO COUNTY

65%

Volusia County, Tomoka Farms Road Landfill and Plymouth Avenue Landfill Continuing Solid Waste Engineering Services, Port Orange, FL

CAD Technician. HDR provides full service solid waste engineering services to Volusia County. Justin has provided conceptual design of base and final grades, volume calculations, and has prepared figures for permit application. Other HDR services to-date include: financial assurance, NPDES, contamination assessment; compliance audits, LFG services, landfill closure design, and environmental compliance reporting.

Volusia County, Volume and Site Life Calculations, Tomoka Farms Road Class I and Class III Landfills, Port Orange, FL

CAD Designer. Project included volume and site life calculations for Tomoka Farms Landfill in Volusia County, Florida. Justin compared survey data three different timeframes to determine, annual airspace consumed and available airspace for landfilling

Sarasota County, Landfill Infrastructure and Permitting Library of Services, Nokomis, FL

CAD Technician. This solid waste library contract contains tasks that are assigned on rotational basis with other contracted firms within the library. Responsibilities include estimating facility emissions for database and an annual financial assurance cost estimate.

Cedar Trail Landfill Valley Fill Expansion, Republic Services, Bartow, FL

CAD Technician. Justin created the conceptual design for four different scenarios for the Cedar Trail Landfill expansion. The conceptual design included the final cover and base grades with volume calculations. Once the client chose a

final scenario, Justin prepared the final cover and base grades and produced all sheet files (site plan, leachate collection, cross sections, details, etc.).

Environmental Resource Permit (ERP) Modifications, Old Kings Road Class I and C&DD Landfills, Flagler County, FL

CAD Designer. CAD Designer for two separate ERP permit modification projects for two landfills in Flagler County, FL. These projects were necessitated by developing Recreational Park (RC) development at two adjacent closed landfills. The RC park features included remote airplane runway, new on-site structures, modifying existing pond to capture acreage for developing parking. Justin provided different configurations for site development, plan and cross sections for ERP modification applications.

Three Rivers Solid Waste Authority, Three Rivers Landfill Gas Collection and Control System Expansion, Aiken, SC

CAD Designer. Landfill gas system expansion design for the Three Rivers Landfill per NSPS requirements. Responsible for GCCS system layout, preparing design and bid drawing packages, and preparing well schedule.

City of Amarillo, Landfill Gas Collection and Control System Design, Amarillo, TX

CAD Designer. Landfill gas collection and control system design per NSPS requirements. Responsible for GCCS system layout, and preparing design drawing package.

Maplewood Recycling and Waste Disposal Facility, Amelia County, VA

CAD Technician. Justin was responsible for base and fill plan surfaces for the recycling and waste disposal facility design. He performed volume calculations and prepared sheet files for the plans.



Joel Miller, PE

Landfill Gas Control and Collection & LFGTE

RELEVANCE TO HERNANDO COUNTY

- HDR's leader in the design, construction, and operations of LFG control and collection systems
- Extensive experience in landfill gas to energy projects throughout Florida and U.S.
- Conducted wide-ranging LFG system optimization studies to capture a greater percentage

Joel has more than 22 years of engineering experience, and currently leads HDR's landfill gas practice. He has managed and provided technical expertise to a variety of solid waste and alternative energy projects, including landfill gas collection and control system design, landfill gas construction oversight, landfill gas monitoring and reporting, solid waste cell design, and solid waste cell closure. Joel's expertise includes landfill gas collection and control system design, landfill gas construction oversight, landfill gas monitoring and reporting, solid waste cell design, and solid waste cell closure. He is also well-versed in air and waste facility permitting, including Title V, NSPS/EG, NESHAP, GHG Reporting and other regulatory requirements.

EDUCATION

BE, Civil Engineering,
University of Texas Austin

REGISTRATIONS

Professional Engineer, Civil,
FL, No. 66477

Professional Engineer,
Environmental, TX, No.
103847

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of
North America (SWANA),
Member

INDUSTRY TENURE

25 years

HDR TENURE

16 years

AVAILABILITY FOR HERNANDO COUNTY

65%

Volusia County, Tomoka Farms Road Landfill, Port Orange, FL

Project Engineer and Task Lead. HDR permitted, designed and performed the engineering construction management for the horizontal expansion for Area 4 of the Class I Phase II North Cell Tomoka Farms Road Landfill in Volusia County, Florida. HDR provided the construction-level design, bid support services and engineering construction management services 4 and is currently performing Construction Engineering Management for the Area 4 construction. In 2017, HDR provided permit-level design and construction level engineering design services as part of the Area 4 expansion of the North Cell Phase II Landfill. Services for the landfill expansion included FDEP permitting, ERP permitting, wetland mitigation, storm water engineering design, construction level design, bid support services and landfill construction engineering field and management support.

Lee-Hendry Landfill Master Plan and Expansion, Lee County, FL

Project Task Manager. HDR is providing professional consulting and engineering services, including design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems. Joel also recently served as task leader for the NSPS/EG Tier 2 NMOC sampling at the site. This sampling is required to comply with the site's Title V permit and to determine if/when an active GCCS might be required. This project is ongoing, with final report due in early March

Landfill Gas Operations Support 2020, Charlotte County, FL

Project Engineer. HDR provided landfill gas collection and control systems operational

support to Charlotte County, including routine O&M, balancing, and reporting; landfill gas collection and control system evaluations, troubleshooting, and specialty monitoring/sampling; data and compliance management and reporting; and urgent construction, maintenance, repair, and emergency response. Florida Board of County Commissioners, Bee Ridge and Central County Landfill Gas to Energy Projects, Sarasota County, FL Project Manager. HDR has provided assistance with reviewing and recommending a developer for a landfill gas utilization project for the Bee Ridge Landfill and assisting the County in developing a landfill gas to energy project at Central County Solid Waste Disposal Complex (CCSWDC). Other services provided include Title V compliance reporting.

2020 Amarillo Solid Waste Services - Groundwater and Landfill Gas Compliance Reporting, City of Amarillo, TX

Project Manager. This multi-year project managing groundwater and landfill gas compliance includes the statistical analysis of groundwater sampling data for reporting to the regulatory agency. It requires ongoing studies, monitoring, and statistical analysis in accordance with applicable regulations. Groundwater sampling and reporting involves managing the detection and assessment wells, parameters and sampling protocols. HDR provided guidance through the entire process from Tier 2 analysis/reporting, through Design Plan submittal, to Phase 1 design of the GCCS - including permitting, bidding assistance, CQA, and start-up assistance. Additionally, HDR is responsible for Title V, NSPS/EG, NESHAP monitoring oversight and reporting.



Jeff Murray, PE

Leachate Management

RELEVANCE TO HERNANDO COUNTY

- Extensive work in evaluating onsite leachate treatment technologies
- Experienced in technology reviews with alternative waste processing facilities
- Provides design expertise in citizen drop off, HHW and convenience centers

Jeff has 26 years of experience and serves as HDR's National Landfill Services Practice Lead. His expertise includes planning, design, permitting and construction administration of municipal solid waste and industrial landfill expansions, landfill closures, post closure landfill re-use, and recycling and transfer station facilities. Jeff previously served a term as the International President for the Solid Waste Association of North America (SWANA) and remains active with the planning committee of the SWANA Landfill Technical Division. Jeff has been active with chapter and international governance of SWANA since 1998 and has assisted with the development of Manager of Landfill Operations (MOLO) certification course and post closure care and long-term management technical policies. In 2020, Jeff received SWANA's Distinguished Individual Achievement Award for his service to the solid waste industry and the landfill management technical division

EDUCATION

Master of Science, Civil Engineering, University of New Hampshire

Bachelor of Science, Mechanical Engineering, University of New Hampshire

PROFESSIONAL REGISTRATION

Professional Engineer, NC, No. 040654

Professional Engineer, VA, No. 048265

Professional Engineer, DE, No. 16345

Professional Engineer, ME, No. 10876

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of North America (SWANA), President, 2017

International Board Director Northern New England Chapter 2004-2013, International Officer, 2014

MOLO Certified 6/2008-present

American Academy of Environmental Engineers and Scientists (AAEES)

INDUSTRY TENURE

26 years

HDR TENURE

10 years

AVAILABILITY FOR HERNANDO COUNTY

50%

Lee-Hendry Landfill Master Plan and Expansion, Lee County, FL

Project Task Manager. Jeff provided quality control review and technical assistance for the design, permitting and construction phase services, for expansion of the Lee-Hendry County Class I Landfill and related systems.

Landfill Services, Waste Management, Inc., Various Locations, VA

Senior Project Manager. Jeff has managed projects in support of four of the company's landfill facilities in Virginia. Work includes disposal capacity evaluation and capital planning, permit modifications, landfill cell and closure design, landfill gas collection design and construction administration. Recent projects include permit modification for a synthetic turf cover system, design and construction administration for over 60 acres of expansion, and closure design of 15 to 20 acre areas at three of the landfill facilities.

Southeastern Public Service Authority, Leachate Pump System Improvements, Suffolk, VA

Senior Project Manager. HDR assisted SPSA with developing a remedial strategy to remedy a significant accumulation of leachate on the liner system that included operational changes, system repairs and emergency pumping and hauling over a seven month period. As part of corrective action HDR designed a system-wide SCADA system to manage pump station operations and a permanent loadout station as a backup to the pumped forcemain connection. Construction of the SCADA and loadout station was completed in 2018 and early 2019. The new system provides real time monitoring of system operations, alarms and warnings, leachate elevations and will automatically shut down pump stations when a high level

alarm exists at downstream wet wells and storage lagoons.

Regional Landfill, Southeastern Public Services Authority, Suffolk, VA

Senior Project Manager. Jeff provides ongoing support of the authority's landfill and transfer station operations. The landfill receives 300,000 tons per year of ash residue from the Wheelabrator Portsmouth waste to energy facility and municipal solid waste from the seven communities in its service area. Work includes airspace evaluation, landfill master planning, permitting, post-closure monitoring, operational assistance, landfill gas engineering, facility evaluations and compliance monitoring. Work has also included assisting with permit and rezoning applications for the 100 acre expansion of the landfill. Recent projects include design build management for new administration, storage, maintenance and HHW facilities, bidding, permitting and construction administration for leachate evaporation facility, and permit modification for revisions base grading plan and final cover materials.

Ann Street Landfill, Leachate PFAS Pilot Study, Cumberland, NC

Senior Project Manager. HDR conducted a pilot study for the removal of PFAS from the MSW landfill leachate using a froth flotation technique developed by our industrial water treatment team. The study demonstrated greater than 98% removal of PFOA and PFOS and other long chain PFAS compounds and good removal of other shorter chain PFAS compounds present in the leachate. The concentrated PFAS residue was less than 1% of the total leachate treated. HDR is assisting the County with loan and grant applications and anticipates design for full scale implementation in 2023.



John Catches, PG

Groundwater | Environmental Evaluations & Stabilization Studies | Subsurface Investigations & Materials Testing

RELEVANCE TO HERNANDO COUNTY

- Lead hydrogeologist with extensive experience in Florida geologic conditions
- Familiar with hydrogeologic conditions through work in neighboring Counties
- Experience with FDEP, FDOT and SWFWMD

John has been involved with planning and implementing a wide variety of environmental projects including contamination assessments, geological and hydrogeological investigations, contaminant remediation, and solid waste permitting. His consulting project experience has involved working with several regulatory agencies, including the Northwest, Northeast, Southwest, and Central districts of the FDEP; most of the Florida Water Management Districts — Northwest Florida WMD, Suwannee River WMD, Southwest Florida WMD, and the St. Johns River WMD; the Florida Department of Health; U.S. Environmental Protection Agency; and the Army Corp of Engineers. John is familiar with interpreting and applying State and Federal Regulations, and he has attended several FDEP rule-making workshops during the development of Chapter 62-780 and revisions of Chapter 62-701.

EDUCATION

MS, Geology, University of Florida, 1997

AA, Engineering (Pre-engineering), Santa Fe Community College FL, 1989

REGISTRATIONS

Professional Geoscientist, FL, No. PG2203

Professional Geoscientist, AL, No. PG1342

Professional Geoscientist, GA, No. PG001674

Professional Geoscientist, MS, No. PG 0853

INDUSTRY TENURE

30 years

HDR TENURE

13 years

AVAILABILITY FOR HERNANDO COUNTY

70%

Hillsborough County Landfill Expansion, Lithia, FL

Project Hydrogeologist. John helped to prepare and submit a permit application for additional cells at this site. He reviewed the groundwater-monitoring plan used prior to the Cell 8 expansion and prepared a GWQMP evaluation. The submittal included recommendations for upgrading the GWQMP. In addition, John continued to work on Hillsborough County Landfill projects as a QA/QC reviewer.

Lake County, Lady Lake Landfill, Astatula, FL

Project Geologist. A trench to intercept landfill gas was installed for this project. Landfill gas was measured and concentrations were recorded at 18 locations, once a month for three consecutive months. A report that included as-built drawings and a location map was submitted to Lake County and the FDEP. John provided QA/QC review for this project.

Leon County Solid Waste Facility, Tallahassee, FL

Sr Project Manager/Sr Scientist. HDR worked on a well installation and well abandonment project for Leon County. A minor permit modification was conducted in 2012 to revise the facility's groundwater monitoring plan (GWMP). This project required abandoning wells that were no longer required in the revised GWMP, and installing one additional well to complete the revised GWMP. Approximately 40 wells, including perched aquifer wells, Floridan aquifer wells, RAP wells, MOP wells, and air-sparge wells were abandoned. John designed and produced the specifications for the double cased wells installed into the Floridan aquifer.

Ocilla/Comp Monitoring and Reporting, Ocilla/Irwin County, GA

Project Manager. This project required semi-annual groundwater sampling and reporting and quarterly landfill gas monitoring and reporting. John prepared the project plan and scope of work for groundwater, surface water, and landfill gas monitoring in accordance with the Rules of the State of Georgia. He worked on this site for approximately 12 years, during which he installed groundwater monitoring wells and landfill gas vents and performed contamination assessment work. His work has resulted in the reduction of cost to the client through the reduction of sampling frequency and sampling locations.

New River Solid Waste Association (NRSWA), Lake Butler, FL

Project Geologist. The New River Landfill required groundwater, surface water, leachate, and gas monitoring and laboratory analysis and reporting services John provided QA/QC review and was the Professional Geologist responsible for this project.

Ocilla/Comp Monitoring and Reporting, Ocilla/Irwin County, GA

Project Manager. This project required semi-annual groundwater sampling and reporting and quarterly landfill gas monitoring and reporting. John prepared the project plan and scope of work for groundwater, surface water, and landfill gas monitoring in accordance with the Rules of the State of Georgia. He worked on this site for approximately 12 years, during which he installed groundwater monitoring wells and landfill gas vents and performed contamination assessment work. His work has resulted in the reduction of cost to the client through the reduction of sampling frequency and sampling locations.



Frances Cheung, PE

Subsurface Investigations & Materials Testing

Francis has 37 years of consulting experience and is responsible for budgets, schedules, and outcomes of major projects; supervision of a number of engineering staff and technicians; management of projects related to solid waste disposal, groundwater monitoring, assessment and corrective actions, groundwater impact studies, soil and groundwater remediation, permitting for waste disposal facilities, site and waste characterizations, and groundwater flow and contaminant transport modeling; performance of contamination assessments, feasibility studies, remedial designs, remedial actions, and post-remediation monitoring for waste disposal facilities, including a number of Superfund sites in Florida; and preparation of proposals and reports. He has also managed many construction quality assurance (CQA) programs for construction and closure of waste disposal areas.

EDUCATION

MS, Civil and Environmental Engineering (Geotechnical), Cornell University

BS, Civil and Environmental Engineering, University of Wisconsin

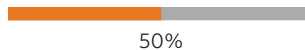
REGISTRATIONS

Professional Engineer: FL, LA, NC

INDUSTRY TENURE

37 years

AVAILABILITY FOR HERNANDO COUNTY



Northwest Waste Management Facility Cell 1 and 2 Vertical Expansion, Hernando County, FL

Lead Geotechnical Engineer for a geotechnical evaluation of the proposed vertical expansion of Cells 1 and 2, which indicated that the north side slope of the landfill would have to be buttressed to provide an acceptable factor of safety for stability of the vertical expansion. The geotechnical evaluation included cone soundings through the landfill to establish the in situ shear strength of the refuse which was employed to conduct the required slope stability analysis. Frances also directed the CQA program for construction of the soil buttresses and an airspace evaluation for the vertical expansion.

Northwest Waste Management Facility Cell 3 Expansion, Hernando County, FL

Lead Geotechnical Engineer for support of the permit application for the Cell 3 expansion of the Class I landfill expansion. He also designed the landfill liner system, which included a geotextile reinforcing layer to provide additional support over sinkholes that could potentially develop in the underlying limestone.

Southeast Landfill Hillsborough County, FL

Project Manager for many geotechnical engineering studies of the Hillsborough County Southeast Landfill, which was constructed directly above a former phosphatic clay settling area. The work involved performance of geotechnical investigations of the soft waste phosphate clay, performance of slope stability analyses of the landfill design sections, and review of the filling schedule for the landfill.

WCA Landfill, DeSoto County, FL

Project Manager to perform geotechnical analyses and to assist in the design and permitting of the bottom liner system for the 60-acre Phase II landfill expansion at this private C&D landfill in DeSoto County. He also served as the Project Manager to provide construction quality assurance (CQA)

services during construction of the first 16 acres of the Phase II landfill expansion, which included earthwork activities and geosynthetic material installations.

Osceola County Southport Road Landfill, Osceola County, FL

Project Manager associated with liner design and construction for a number of landfill cells at the Osceola County Southport Road Landfill. The work involved performance of landfill slope stability and foundation bearing capacity analyses, performance of interface stability analyses between different liner components, design and testing of bottom liners, preparation of construction quality assurance plans for liner system construction, and implementation of construction quality assurance inspection and testing program during bottom liner installation and final cover construction.

Lake County Astatula Landfill, Lake County, FL

Project Manager for a number of geotechnical projects at the Lake County Astatula Landfill, including design and construction of an infill segment between Phases IIA and IIB, closure of the north slope of Phase IIB, performance of slope stability and settlement analyses for a proposed C&DD landfill unit on top of the Phase I landfill cell.

Pinellas County Landfill, Pinellas County, FL

Project Manager in evaluating the stability of the proposed landfill section in Pinellas County Landfill. He also directed implementation of the construction quality assurance program during installation of the soil-bentonite cut-off wall at the landfill site.

Orange County Landfill, FL

Project Manager associated with construction quality assurance for the bottom liner system for Cell 8 and closure of Cells A through K at the Orange County Landfill. He was also the Project Manager for groundwater flow modeling of the existing Orange County Landfill property and an adjacent 3,500-acre expansion area.



Keith Howard, PE

Composting & Anaerobic Digestion | Recycling Facilities Design & Engineering | Solid Waste Rate Studies | Master Planning | Contractual Support

RELEVANCE TO HERNANDO COUNTY

- On-the-ground experience operating a large solid waste management system in Florida
- Nationally recognized in composting yard waste and sewage sludge into a salable product
- Valuable recent experience in managing a MRF

As a recognized leader in the Florida solid waste market, Keith brings a unique mix of experience both as a public agency lead and a consultant. Most recently, Keith was the director of Lee County's solid waste division, where he was responsible for a \$70-million-plus waste operation. Prior to his time at Lee County, Keith spent six years as the engineering manager for the Municipality of Anchorage, where he was responsible for the management, design and construction of their Cell 7 expansion; he also spent seven years as a solid waste consultant in the Chicago area managing landfill development, expansion and permitting related projects in the midwest. He is actively involved in the waste community and is serving as the Florida SWANA Past President.

EDUCATION

MBA, Business Administration, University of Alaska Anchorage, 2008

BS, Civil Engineering, University of Illinois, 1991

PROFESSIONAL REGISTRATIONS

Professional Engineer, FL, No. 66031

PROFESSIONAL MEMBERSHIPS

SWANA, Florida Chapter, Vice President

INDUSTRY TENURE

26 years

HDR TENURE

<1 year

AVAILABILITY FOR HERNANDO COUNTY

60%

Bay County Engineering Division, Solid Waste Management System Business Evaluation | Panama City Beach, FL

Technical Advisor. HDR reviewed financial and operating data for the System and defined the following scenarios for the Bay County Solid Waste Department: 1) Suspend WTE operations, 2) Suspend WTE Operations at the expiration of the service contract, and 3) Continue WTE operations indefinitely. HDR identified and reviewed the potential complexities related to the project and its impact on stakeholders. A walk through of the waste to energy plant was also conducted to review and observe operations and general condition of the plant.

Bay County Engineering Division, Waste-to-Energy Facility Decommissioning Phase 1 | Panama City Beach, FL

Senior Technical Advisor. Bay County requested HDR assist with executing the waste-to-energy facility decommissioning process, including developing a demobilization plan, demobilization implementation, demolition RFP development and construction administration.

Broward County, Scalehouse Expansion Study | Broward, FL

Senior Project Engineer. HDR evaluated the scale and scale house operations to determine how many scales are suitable for the current and future operations. The project included an evaluation of current and projected future customer volume and type, design recommendations and a conceptual design that was used to identify the design and permitting requirements. HDR also performed an evaluation of the technology available for scale automation. Cost estimates for the equipment, demolition, construction, and permitting were provided.

Lee County, Compost Facility Construction | Fort Myers, FL

Project Manager. This project included installation of nine acres of asphalt pavement, high pressure/high volume water distribution system and six single-span fabric covered buildings (166' x 120').

Lee County, Materials Recycling facility Retrofit to Single Stream | Fort Myers, FL

Project Manager. Worked with HDR to solicit and develop the conversion of the county's dual stream MRF to single stream. Project included equipment installation and performance testing, building expansion and equipment foundation installation.

Lee County, Ash Monofill (Class I) Development | Fort Myers, FL

Project Manager. This project included a 16 acre, Class I Ash Monofill. The project required extensive coordination with the County's consultant to evaluate the best design approach, and accordingly develop a Class I Ash Monofill. Along with traditional design components, this project also required extensive land clearing, electrical feed line coordination with local utility, stormwater control and leachate forccmain handling systems. While evaluating various options, the project team opted to suppress the sump, leachate lines and a portion of the baseliner beneath the seasonal high groundwater table. As Project Manager, Keith ensured that the project (design options evaluation, design/permitting and construction) was accomplished within the anticipated schedule and budget by working closely with the project team.



Tim Raibley, PE

Composting & Anaerobic Digestion

RELEVANCE TO HERNANDO COUNTY

- Provides cutting edge experience in organics and anaerobic digestion
- National leader in compost system planning, design, construction, and operations
- Proficient in efficiency evaluations, economic analyses, and procurement

Tim has more than 43 years of environmental and civil engineering experience, including extensive solid waste diversion based facilities including organics/composting, single stream recycling, anaerobic digesters, solid waste transfer, materials recovery and recycling facilities. He has provided engineering and development, permitting and design, operations efficiency evaluations, economic analysis, and procurement services ranging from conceptual planning, fatal flaw analysis, peer review, design of working plans, and specifications to construction management and construction quality assurance.

EDUCATION

BS, Civil Engineering,
California State University,
San Jose, 1980

REGISTRATIONS

Professional Engineer, CA,
No. 35222

Professional Engineer, WA,
No. 44393

INDUSTRY TENURE

43 years

HDR TENURE

34 years

AVAILABILITY FOR HERNANDO COUNTY

60%

Yard Waste/Organics Processing Procurement, Monroe County, FL

Tim served as the technical advisor to the County on this procurement assistance project. As part of this effort, the HDR team reviewed a draft RFP document developed by County staff, and developed an outline for the RFP including procurement approach options, which could include a one-step process, two-step process, and varying degrees of specificity (a one-step process with weighting factors was ultimately used); technology considerations, which included chipping/mulching; aerobic digestion (composting, in-vessel); anaerobic digestion; incineration; and emerging technology; evaluation criteria considerations, which included policy criteria and technical criteria, and strategies for apples to apples comparisons. The HDR team assisted the County in evaluating responses to the RFP, including assistance with understanding different technologies proposed, and how evaluation criteria should be applied. After the County Commission approved moving forward with due diligence and contract negotiations with the vendor that proposed gasification technology, HDR was again retained to assist in due diligence evaluations.

Procurement of Anaerobic Dry Fermentation Digestion Technology and Composting for Commercial Organics, City of San Jose, CA

Tim provided support to the City of San Jose in the analysis of various organics processing technologies as a part of their Commercial Waste Stream Re-design effort. In order to reach a City green vision goal, HDR assisted the City in seeking an exclusive franchise provider to construct and operate an aggressive organics management system. HDR assisted the City in crafting an RFP and then reviewing responses to private sector proposals to construct and operate various types of Organics Processing facilities under the

exclusive franchise incentive program. The RFP included incentives to encourage innovative and aggressive waste diversion solutions from the private sector, including incentives for waste handling that includes conversion technologies as an organics processing option. Our analysis included a detailed review of the proposals which were tailored to accommodate various levels of contamination in the organics stream.

27th Ave. Compost Facility Planning, Design and Economic Study, City of Phoenix, CA

Tim served as the project manager for HDR who was retained to evaluate the technical and financial viability of developing a compost facility that will replace an existing chip/grind operation which is a part of the existing waste management system. The city envisions expanding its commercial and residential waste collection services to include food waste collection in the coming years. In advance of those programs, the city desired to prepare the infrastructure to be ready to accommodate these more challenging feedstock materials. The HDR study included various compost treatment methods to accommodate increasingly putrescible feedstock materials, as well as address other variables that are relevant to the analysis of the facility. The current throughput is 50,000 tons of green/yard waste and the city expects the expanded food waste program to increase the throughput tonnage to 90,000 tons per year. As a part of the study, HDR explored several possible sites for the new facility concluding the existing chip/grind operation was preferable. As a part of this work, HDR also prepared an interim facility design plan to relocate the current chip/grind operations to allow the current area to be developed into the future compost facility. HDR also assisted in the coordination of permits required for the facility which for this location. The project development is anticipated to occur in 2014.



Bob Rella, PE

Transfer Station Design & Engineering

RELEVANCE TO HERNANDO COUNTY

- HDR's technical leader in solid waste transfer station design
- Provides expertise in a wide range of MRF options
- Extensive background designing innovative solid waste management and recycling facilities in the U.S.

Bob serves as HDR's National Practice Leader for Solid Waste Facilities. In this role, he provides technical oversight and support on solid waste and facilities projects performed by HDR offices nationally. His involvement includes establishment of project teams, technical review, quality control, production, client coordination and project execution. Bob has more than 25 years of experience in the solid waste industry, and has been involved in the planning, permitting, design, construction and monitoring of waste-to-energy facilities, landfills, transfer stations, materials recovery facilities (MRF), drop-off and convenience centers and composting facilities.

EDUCATION

MS, Civil Engineering (Geotechnical/Civil Engineering), Manhattan College

BS, Civil Engineering, Manhattan College

REGISTRATIONS

Professional Engineer, FL, No. 65455

Professional Engineer, VA, No. 0402054748

Professional Engineer, SC, No. 18139

Professional Engineer, NC, No. 22474

Professional Engineer, PA, No. PE-042250-R

Professional Engineer, GA, No. PE030238

Professional Engineer, NY, No. 066835

Professional Engineer, NJ, No. GE-37329

Professional Engineer, MD, No. 21677

Professional Engineer, IN, No. PE10707595

INDUSTRY TENURE

44

HDR TENURE

34

AVAILABILITY FOR HERNANDO COUNTY

65%

East Pasco Transfer Station Expansion, Dade City, FL

Design Lead. HDR was responsible for the design of the East Pasco Transfer Station in Dade City, FL. The design includes an approximate 150% increase in receiving area/tip floor, architectural integration with the existing transfer station, and accommodation for the existing load out tunnel as well as associated site improvements and ancillary features such as storage bunkers and added office space. Civil, architectural, structural, mechanical, electrical, plumbing and fire safety disciplines were involved in the project.

Orange County, Northwest Transfer Station, Orange County, FL

Project Director. HDR was selected by Orange County for the site selection, permitting, engineering and design of the proposed transfer station facility. Efforts included the development of screening criteria, researching property availability, application of screening criteria, site selection and recommendation, population data review, waste generation rate and material quantity analysis.

SPSA, Permitting, Design, Construction Administration, Environmental Consulting and Field Services, Suffolk, VA

Project Principal. Landfill development and operations, steam plant modifications and operations, and RDF facility modifications and operations. Projects include landfill expansion and development, transfer station upgrade and maintenance, combustion facility maintenance and retrofit, and new facility design and construction.

Roanoke Valley Resource Authority (RVRA), Smith Gap Regional Landfill, Tinker Creek & Salem Transfer Stations, Roanoke, VA

Project Manager. HDR was retained by RVRA to assist with the preparation of

permit applications and design drawings for improvements to the residential services areas at the Tinker Creek Transfer Station in Roanoke, Virginia. The transfer station accepts delivery of residential and commercial wastes from communities in Roanoke County and transfers the waste via rail containers for disposal at its Smith Gap secure landfill. The facility includes a drop-off area for residents to manage recyclable materials, household hazardous waste, bulky wastes, and municipal solid waste. RVRA desired to expand the existing residential drop off area to improve its capacity and function with the provision of retaining walls, canopy roof, and roll-off containers. RVRA also desired to add an automated inbound truck scale, bypass lane, complete modifications to the existing scale house facility, and increase on-site parking.

Winston-Salem Solid Waste Planning, Permitting, Design, Construction

Administration, Winston-Salem, NC
Project Principal. Overseeing all project services associated with the implementation of expansion of the City's solid waste disposal facilities. HDR's efforts include planning, permitting, design, construction monitoring, financial analysis, and feasibility evaluations.

City of Greensboro, Greensboro Transfer Station, Greensboro, NC

Project Director. Mr. Rella assisted HDR's Project Manager in the development and implementation of the City's overall solid waste management plan, including the development and design of a new 900 tpd (24,000 SF) municipal solid waste transfer station. This effort included planning, permitting, design, construction monitoring, financial analysis, and feasibility evaluations associated with solid waste collection and disposal.



Josh Miller, PE

Transfer Station Design & Engineering

Josh has extensive experience in the waste industry including energy-from-waste, architecture, industrial and water/wastewater. His project roles have included Resident Project Representative (RPR) for site construction and startup activities of various facilities. He has been involved in many projects involving coal- and gas-fired power plants and waste-to-energy facilities, including construction and startup monitoring, implementation of EPC procurements of facilities, design review, equipment performance testing, and international travel. He also has experience in engineering and design, preparation of general arrangements, cost estimates, preliminary site layouts, flow diagrams, pipe stress analysis, power plant cycle performance analysis, and shop inspections of mechanical equipment.

EDUCATION

BS, Mechanical Engineering,
University of Nebraska

REGISTRATIONS

Professional Engineer:
FL, NE

INDUSTRY TENURE

19

HDR TENURE

15

AVAILABILITY FOR HERNANDO COUNTY

70%

Household Hazardous Waste Facility Drum Storage Building, Sarasota County, FL

Project Manager. HDR provided design and permitting services for a second drum storage building located at the Bee Ridge Chemical Collection Facility. The team's responsibilities included review of the existing proposed design, permitting assistance, bidding assistance, and construction administration.

East Pasco Transfer Station Expansion, Dade City, FL

Project Manager and Senior Engineer. HDR was responsible for the design of the East Pasco Transfer Station in Dade City, FL. The design includes an approximate 150% increase in receiving area/tip floor, architectural integration with the existing transfer station, and accommodation for the existing load out tunnel as well as associated site improvements and ancillary features such as storage bunkers and added office space. Civil, architectural, structural, mechanical, electrical, plumbing and fire safety disciplines were involved in the project. HDR is currently providing construction oversight services.

Independent Consultant for Resource Recovery, Lee County, FL

Senior Engineer. HDR was the consulting engineer for the 636-tpd expansion of the existing 1,200-tpd Resource Recovery Facility. Activities included project design services, independent studies and reports, monitoring Covanta's performance as construction manager, an engineer's feasibility report in support of project financing, on-site construction administration support services, opinions and dispute resolution regarding erection contractors, permitting and regulatory compliance assistance, monitored project budgets and schedules, jointly developed an acceptance test procedure with Covanta, and monitored acceptance tests. HDR continues to

perform ongoing operations and maintenance monitoring and manage regulatory and permit compliance programs for the expanded 1,836-tpd facility.

Resource Recovery Facility Operations and Maintenance Engineering Services, Hillsborough County, FL

Project Engineer. HDR is providing ongoing operations and maintenance services at the Hillsborough County Resource Recovery Facility. The facility is a regional leader in the production of energy from waste and is a key element of the County's renewable energy portfolio.

Fire Suppression Tank Replacement, Sarasota County, FL

Project Manager. HDR to provide engineering services associated with the replacement of the fire suppression tank at the Central County Solid Waste Disposal Complex (CCSWDC). Engineering services included preparation of construction plans and specifications, and construction administration implementation. HDR also provided support for on-site activities associated with contractor demolition, installation of the new fire water tank, and equipment commissioning.

Hennepin Energy Resource Center Extraction Line Analysis, Minneapolis, MN

Project Engineer. Josh performed a pipe stress analysis of a plant modification that included an additional steam extraction line (off the turbine 1st stage extraction) and new non-return valves. Code stresses were checked against allowable limits. Field verification was also conducted to collect information on pipe takeoffs, supports, valving, and other design parameters. A formal report was created to address the impacts of the extraction line and addition non-return valves.

**EDUCATION**

B.A. Economics &
International Business
Rollins College

REGISTRATIONS

CGFM - Certified
Government
Financial Manager

INDUSTRY TENURE

17

HDR TENURE

17

**AVAILABILITY FOR
HERNANDO COUNTY**


60%

Theirry Boveri, CGFM

Solid Waste Rate Studies & Financial Pro Formas

Theirry brings a client focused approach with a strong desire to provide value and client satisfaction. Theirry has performed numerous revenue sufficiency and cost of service utility and cost of service studies for over 40 local governments, has prepared financial feasibility and disclosure reports totaling over \$1 Billion in debt proceeds issued through the traditional bond market, state revolving loans. Theirry has provided solid waste consulting services on behalf of Florida Counties of Hernando, Hillsborough, Lee, Manatee, Martin and Sarasota and the Babcock Ranch Community Development District. Theirry's responsibilities were associated with the evaluation of solid waste system operations, financial compliance, regulatory closure compliance (financial assurance), contractual arrangements (e.g., evaluation of collection hauler contracts), cost of service and recommendations concerning solid waste assessments and/or fees charges for collection and disposal services. Theirry has also consulted on issues related to municipal interlocal agreements, bond resolution development, procurement for alternative disposal and various marginal and cost benefit analyses.

Hernando County, FL

Mr. Boveri has performed various services for the County, beginning with the preparation of a financial forecast and revenue sufficiency analysis in 2014 with annual updates since then. The study included development of an interactive model of the landfill and disposal facilities encompassing an eleven-year planning horizon (current budget year plus a ten-year forecast). The specific Study tasks have included:

- Compilation of historical solid waste deliveries received by the County, by waste type, and the projection of solid waste tonnage to estimate tipping fee revenues
- Preparation of forecast of residential/ dwelling unit and commercial customer growth and waste generation rates to estimate solid waste generation for disposal and to estimate disposal revenue from residential solid waste assessments and commercial tipping fees
- Projection of capacity availability in active landfill cells, the timing of the need to expand the disposal facility, and the corresponding funding of a future cell construction reserve recognizing the landfill disposal capacity utilization
- Preparation of change in landfill closure and long-term liability for expense recognition and funding considerations
- Development of an operating, capital funding, and financial plan and the determination of disposal fee adjustments to satisfy the objectives of the plan
- Development of financial model documentation for County staff internal use

In addition to the annual sufficiency study, Mr. Boveri has also assisted in evaluating the rate and financial impact associated with alternative processible waste disposal options being proffered by third parties in 2015 and

2017. PRMG worked with the County and the alternative disposal provider to evaluate cost differences due to the potential changes in waste disposal options, agreements for service in support of the ongoing financial evaluation, and assisted County staff in the presentation of the alternative waste disposal option to the Board of County Commissioners.

Finally, as part of our general services offered to the County, Mr. Boveri has performed various economic evaluations to assess the average and marginal cost of landfill disposal per ton.

Hillsborough County, FL

Mr. Boveri has performed annual solid waste forecasts for the County since 2011, including retail and wholesale rate setting, cost / benefit evaluations, determination of average and marginal cost of operation, support for credit rating agency surveillance and feasibility analyses. As it relates to review of contract operations, Mr. Boveri was responsible for:

- Modeling and forecasting contracted operating costs;
- Independent review associated with calculation of allowable indexing to various contracted service rates for collection, facility operations and waste disposal; and
- Development of a proposed contracted services pass-through provision to the solid waste assessment and tip fees.

Mr. Boveri also assisted the County with the recent issuance of the Solid Waste and Resource Recovery Facility Bonds Series 2016 A/B in the combined principal amount of approximately \$114 million. Mr. Boveri has also assisted the County with review of contracts and validation of compliance with application of indexing provisions to charges by the County's solid waste franchise haulers.



John Carlton, PE, BCEE

Master Planning

RELEVANCE TO HERNANDO COUNTY

- HDR's national leader in solid waste management master planning
- Provides expert services in rate studies and procurement projects

John has more than 33 years of solid waste management experience as a consultant and in executive positions for public-sector authorities. He has served as Project Director and Project Manager for landfill baseliner and closure designs, landfill and composting operator procurements, solid waste management plan development, waste-to-energy, and landfill photovoltaic projects. John also has experience with environmental site assessments, environmental permitting, energy audits, energy conservation retrofit measures, and water conservation and wastewater planning.

EDUCATION

BS, Civil and Environmental Engineering, Duke University

REGISTRATIONS

Professional Engineer, FL, No. 84409

Professional Engineer, VA, No. 0402055578

Professional Engineer, MD, No. 47291

Professional Engineer, NJ, No. 24GE03976100

American Academy of Environmental Engineers Board Certification in Solid Waste Management

PROFESSIONAL MEMBERSHIPS

Solid Waste Association of North America (SWANA), Planning and Management Division, Awards Committee, 2013 - Present

SWANA, New Jersey Chapter, Director, 2004 - Present

American Academy of Environmental Engineers, Solid Waste Committee, 2011 - Present

INDUSTRY TENURE

33 years

HDR TENURE

5 year

AVAILABILITY FOR HERNANDO COUNTY

60%

Metro Waste Authority, Materials Recovery Facility (MRF) Feasibility Study, IA

Project Manager. John led the feasibility study for the development of a MRF that would accept and process Iowa's most comprehensive curbside recycling program. The study developed multiple operating scenarios for evaluation purposes and projected recycling volumes over a 20-year period. The study also evaluated a proposed site, reviewed commodity markets, developed capital and operating cost estimates, and analyzed potential project risks.

Madera County, Solid Waste Management Consulting Services, Madera County, CA

Project Manager. John provided numerous consulting services to Madera County, including operations reviews, financial modeling and rate recommendations, development of an organics management plan, negotiated amendments to landfill and transfer station operating contracts, and franchise collection agreements. He is considered an extension of staff and manages monthly operations meetings, quarterly financial reviews, and an annual solid waste workshop with the Board of Supervisors. John is currently working with the County to develop policies, ordinances, franchise agreement amendments, rate structures, and programs to help the County comply with Senate Bill 1383.

Lee County, Long-Term Integrated Waste Management Plan, Lee County, FL

Project Manager. John helped lead the development of the Lee County Long-Term Integrated Waste Management Plan. This comprehensive plan sought to provide guidance for the management of the County's solid waste over the next 20 years. Project elements included a waste characterization study, an evaluation of the County's current system, a review of regional systems and

national best practices, an evaluation of available technologies, a needs forecast, and an analysis of options.

Aiming for Zero Waste: A Vision for Sustainable Materials Management in Montgomery County, Montgomery County, MD

Technical Reviewer. John provided quality control reviews in the development of Montgomery County's zero waste strategic plan. The plan reviewed existing processing facilities, enhancements to the current diversion and recycling system, benchmarking and best practices, and considered options for the collection and disposal of "what's left".

Mechanisms to Implement and Support Pilot Recycling Initiative Program, New York, NY

Technical Reviewer. John provided quality control reviews of a study for DSNY that explored options to improve diversion of designated recyclable materials in public housing units managed by the New York City Housing Authority (NYCHA). Multiple options were evaluated for incentivizing recycling, and results were expressed in terms of diversion potential, community impacts, and costs.

Materials Recovery Facility Feasibility Study, Des Moines, IA

Project Manager. John managed the feasibility study for the development of a MRF that would accept and process Iowa's most comprehensive curbside recycling program. The study developed multiple operating scenarios for evaluation purposes and projected recycling volumes over a 20 year period. The study also evaluated a proposed site, reviewed commodity markets, developed capital and operating cost estimates, and analyzed potential project risks.

3 FIRM/TEAM CAPABILITIES

HDR: The Best Team for the Job

We have solved many challenges nationally and locally for municipal clients in Florida. Our record of service in Florida extends for more than 45 years, building solid working relationships with state agencies. We have completed projects for numerous cities, counties and authorities throughout Florida, including solid waste engineering and planning services. With more than 400 skilled professionals and 9 offices throughout the state of Florida, we have a strong, local familiarity with a solid and in-depth understanding of the requirements and constraints involved in state projects. We will utilize our local knowledge and resources to successfully deliver projects on time and within budget.

We know that 'textbook' solutions don't always work for environmental and waste services, so we evaluate a broad range of your needs in the context of economic, environmental and social impacts. The result is sustainable, cost-effective, and tailored solutions to your specific program's needs. Our practice focuses on integrated project delivery with cutting-edge technology and expertise while delivering unparalleled, sustainable solutions for a global tomorrow.

The HDR team is best suited for your project because of our knowledge, relationships, and technical abilities. When you choose our team, you get the following benefits:

- A Team that has a comprehensive understanding of your project site details
- Complete, in-house staff who are available and responsive when you need them
- A Team that has a track record of successful FDEP landfill permitting
- Commitment to client satisfaction

HDR Project Site Experience

The HDR team has provided several solid waste services for Hernando County from 2009 to 2013 and from 2018 to the present. Our hydrogeologists, geologists and engineers have extensive knowledge of existing site conditions at the Northwest Solid Waste Facility and the closed Croom Landfill, therefore there is no learning curve when you select HDR.

Responsive In-House Staff

Our team has the ability to begin your project and see it through until the end, all with in-house staff. The capacity to accomplish work in a strict timeframe requires strong and experienced leaders backed by skilled team members. Our personnel are dedicated to providing sufficient time and effort to produce a quality product. With this in mind, our team members were carefully selected not only for their expertise and knowledge of your site, but also for their availability to immediately begin working on your project and to see it through completion.

A Successful Track Record with FDEP

The HDR team works closely with the Solid Waste Section of the FDEP. We have successfully worked with Southwest District FDEP staff on various solid waste projects. HDR has a strong track record of effective communication with the Solid Waste Section of FDEP's Southwest District Staff which has led to numerous successful projects.

Commitment to our Clients

Our bottom line comes down to your satisfaction throughout the duration of your project. Our team will ensure that we are meeting your needs from the very start to completion. To do this, we have established means of communication to ensure we are on track, meeting your needs.

SOLID WASTE SERVICES

In an ever-changing industry, our team continues to lead the way in innovative waste management strategies and ideas to provide you with the best solutions for your program.

Our services include:

INTEGRATED WASTE MANAGEMENT PLANNING

WASTE TRANSFER AND PROCESSING FACILITIES

WASTE TO ENERGY

ORGANICS MANAGEMENT

LANDFILL AND LANDFILL GAS SERVICES

PERMITTING, STUDIES, SITING AND OPTIMIZATIONS

RATE STUDIES AND EFFICIENCY ANALYSIS

STRATEGIC CONSULTING AND PUBLIC INVOLVEMENT

ENVIRONMENTAL REMEDIATION

PERMIT COMPLIANCE AND ASSET MANAGEMENT

Project Management Structure

The foundation for HDR’s project approach is our overall comprehensive Project Management Plan (PMP). The PMP is broken down into four key components that, when executed together, verify that the County’s expectations and goals are met throughout the duration of the project, from scope definition to successful project delivery. The PMP establishes the project requirements, identifies key client and project team communication protocols and contact information, establishes the schedule, identifies key project staff and the overall project work plan, and outlines the project quality assurance/quality control (QA/QC) requirements.

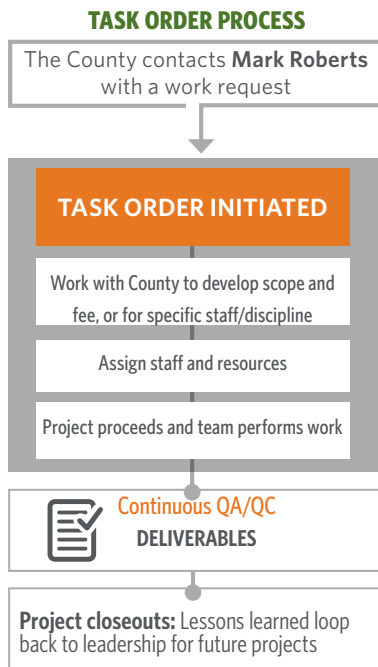
The Operations Plan component of the PMP integrates tracking and monitoring of the approved scope, budget, and project schedules for each project assignment, and defines requirements for invoicing, document control, and subconsultant management. An action item checklist is used as a management tool to track the project team’s progress.

More details regarding our PMP structure is included in Section 5. Project Approach of this proposal.

Communication Structure For Tasks

The County will contact HDR’s Project Manager, Mark Roberts, when there is a task order requiring our team’s services. He and appropriate team members will meet with County staff to discuss the scope of services and expectations for the project. Communication is critical to project success; it starts at the inception of the task and continues throughout. We will discuss the project with you, actively listen to your needs, and confirm that we clearly understand the task before moving forward.

One of the most important elements of any project is matching capabilities with task expectations. HDR’s experienced solid waste team of professionals combined with our other business groups are an ideal match for large and small projects, verifying that multiple task orders can be executed with right-sized, effective, and efficient teams.



Current and Projected Workload

The HDR Team has ample local and national capacity to support Hernando County over the life of this contract, and will continue to provide prompt, responsive, quality service on projects as assigned. HDR personnel are keenly aware of the importance of providing a high level of responsive client service; in fact, a cornerstone of our continued success has been our commitment to “Clients for Life,” which is symbolic of the importance placed on earning repeat business from our clients—a direct measure of HDR’s responsiveness, service, and value. Our company leadership, project management staff, and key technical resources all receive state of the art resource management and leadership training, and are provided with the necessary project and management tools to implement these concepts in the real world.

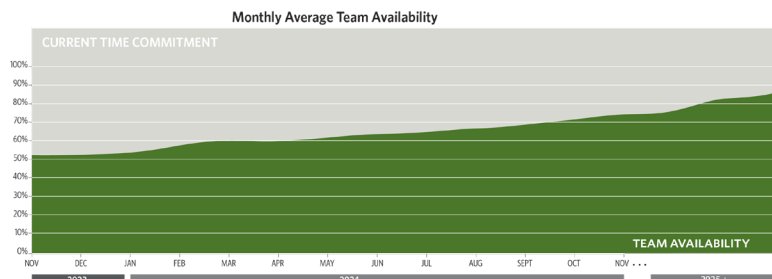
Trusted Local Leaders Supported by Committed Resources

The professionals and specialists chosen for this contract, most of whom are based in local offices, will be devoted to Hernando County throughout the contract’s duration. Furthermore, the County has immediate access to more than 400 employee-owners throughout Florida, and over 11,000 nationwide.

Our Project Manager, Mark Roberts, and supporting technical team members have a strong record of providing quality and efficient services to Hernando County in the past via our solid waste contract, and we have demonstrated in previous sections the level of staffing, service, relevant experience and abilities we will bring to the County.

Our deep pool of experienced resources and trusted leadership provides Hernando County with a comfort level that we will be able to meet the peak staffing demands and provide back-up for emergency, critical or unforeseen situations on any task assignment.

Our Team’s current and projected workload will allow us to continue providing Hernando County with quality services. We will continue to commit the necessary resources to meet the requirements of each task assignment in a cost-effective manner, and we are committed to exceeding your expectations on each task issued under this contract. Below is a timeline showing our staff’s availability over the duration of one year.



4 PRIOR EXPERIENCE

Expertise to Meet Hernando County Needs

Since 1974, HDR has assisted Florida counties and public authorities in the planning, permitting, design, construction, monitoring and reporting of solid waste management facilities. HDR’s solid waste team for Hernando County includes in-house solid waste engineers, planners, geologists, scientists, and technicians.

HDR is an innovative leader in developing and supporting solid waste management systems. HDR is on the forefront of optimizing landfill disposal facilities for alternative uses such as solar energy generation from landfill caps, converting landfill

gas to fuel (CNG), organic waste conversion to biofuels, yard and food waste composting. We have helped communities plan for and implement these types of programs across the U.S. and in Florida.

In Florida, we’ve provided the services requested in RFQ 23-R00046/PH for several similar communities. **The table below demonstrates where we’ve performed similar work in Florida.** On the following pages, we have provided detailed project information for a selection of similar contracts.

Services	Clients																	
	Volusia County	Flagler County	Big Rivers Electrical Corp	Sarasota County	Santa Rosa County	Charlotte County	Lee County	Alachua County	Hillsborough County	Bay County	Okaloosa County	Escambia County	Leon County	Hernando County	Collier County	Lake County	Miami-Dade County	Putnam County
SW Management Planning & Implementation				•		•			•			•		•			•	
Landfill Operations	•		•	•		•			•	•		•	•	•	•			
Stormwater Management and Permitting	•	•	•	•			•		•	•		•		•		•		
Landfill Operations Safety Plan									•	•		•						
Leachate Collection, Disposal and Reporting	•			•	•					•	•	•		•				
Landfill Gas Control and Reporting	•			•	•	•	•		•		•	•	•	•				
Groundwater Monitoring and Reporting	•	•				•					•	•	•					•
Preparation of bi-annual Groundwater Parameter Trend Analysis	•	•				•					•		•					•
Financial Assurance Compliance Reports	•	•	•	•	•	•		•	•		•	•		•		•		
Solid Waste and Air Permit Modifications	•		•	•	•		•		•	•	•	•		•				
Economic Feasibility Studies	•		•	•	•		•	•	•	•				•			•	
Cost/Benefit Analysis	•		•	•	•	•	•	•	•	•							•	
Tipping Rate Fee Analysis				•	•	•		•				•						
Waste Stream Composition Analysis			•					•					•				•	
Preparation of Conceptual Plans and Cost Estimates	•	•		•	•	•	•	•	•	•		•		•			•	
Engineering Design and Permitting	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
Preparation of Construction Bid Documents	•		•	•	•		•	•	•			•	•	•	•	•		
Bid Evaluation	•		•	•	•		•	•	•			•	•	•	•	•		
Construction Administration	•		•	•	•		•	•	•			•	•	•	•	•		
Construction Monitoring	•		•	•	•		•	•	•			•	•	•	•	•		
Preparation of Construction Certification Reports	•		•	•	•		•	•				•	•	•	•	•		



SANTA ROSA COUNTY

CONTINUING ENVIRONMENTAL & ENGINEERING SERVICES FOR CLASS I AND CLASS III LANDFILL OPERATIONS, LANDFILL DESIGN, LANDFILL GAS, LANDFILL GAS TO ENERGY & CONSTRUCTION

CLIENT CONTACT

Kaz Szymoniak
850.981.7139
kazs@santarosa.fl.us

SERVICES PROVIDED

- Landfill Expansion Design
- Landfill Construction Management and CQA
- Landfill Gas Flare System Design
- Title V Reporting
- LFG to CNG Feasibility Study and Preliminary Design
- Leachate Collection System Upgrades
- Leachate Basins Repair and Reconditioning

TIME PERIOD

2013 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Chelsea Williams, EI
- Kelsey Heller, EI
- Justin Raymond

MILTON, FL — HDR was selected by Santa Rosa County to provide Continuing Landfill Environmental and Engineering Services at the County's Central Solid Waste Disposal Facility which includes Class I Landfill, Class III Landfill, and Storm Debris Management Areas. HDR has been performing solid waste management consulting services for Santa Rosa County since 2006 and continues providing a wide range of expertise which include solid waste management planning, design, permitting, bid and construction support services. Specific services include:

- Class I cell expansion design, bid support, construction support, CQA and construction certification
- Landfill gas collection system design, permitting, bid support, construction support, CQA and construction certification
- Landfill gas control and reporting
- Title V permitting
- Landfill gas to energy options study
- Stormwater management and reporting
- Cost/benefit analyses
- Preparation of conceptual plans and cost estimates
- Leachate collection system upgrade design, bid support, construction support, CQA and construction certification

- Leachate pond upgrades design, construction support, CQA and construction certification
- Economic feasibility studies

HDR also provided planning services to determine the best reuse option for the County's LFG in 2016. Based on the quality and quantity of the LFG collected at Central Landfill, HDR and the County determined that the most feasible option to best fit the County's needs was to convert the landfill's gas to compressed natural gas (CNG) to fuel garbage trucks at the landfill.

HDR is currently developing the CNG RFP which includes a detailed description of the existing gas collection and control system, the landfill gas generation and quality, the proposed area designated for the CNG facility, and a complete description of CNG vendor responsibilities.

HDR is also providing permitting services for the CNG facility by modifying the existing FDEP solid waste and USEPA Title V permits. HDR is working with the County to submit a stand alone Title V construction permit application for the new control device.



ESCAMBIA COUNTY

SOLID WASTE ENGINEERING SERVICES, PERDIDO CLASS I LANDFILL

CLIENT CONTACT

Don Seitz
850.937.2164
dseitz@co.escambia.fl.us

SERVICES PROVIDED

- Landfill Expansion Design
- Landfill Construction Management and CQA
- Landfill Master Planning
- Leachate Collection System
- Landfill Gas Collection System
- Financial Analysis
- Landfill Closure Design and Permitting
- Environmental Reporting
- Solid Waste Ordinance Writing

TIME PERIOD

2008 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Chelsea Williams, EI
- Kelsey Heller, EI
- Justin Raymond

CANTONMENT, FL — Since 2008, HDR has provided engineering services at the Class I Perdido Landfill. Services have included landfill design and permitting, ERP permitting through FDEP and ACOE, fill planning, technology evaluations, and financial analyses.

HDR designed Section 5 expansion of the lined landfill in an area with a closed 45-acre unlined landfill. Waste mining was utilized to remove the waste for new cell development and expansion. HDR acquired a permit for the landfill mining project and for horizontal and vertical expansion.

HDR provided design and operations for stormwater diversion, leachate control, odor control, unacceptable waste handling, excavation plans, and the relocation of a section of the landfill gas collection and control system that had serviced the unlined areas.

HDR developed a new final cover surface with associated stormwater features that matched the existing landfill configuration. Based on these drawings, HDR performed a capacity analysis, determined the lifespan of the landfill and provided a schedule for future development to be initiated before landfill operations. HDR also developed a set

of 3-dimensional drawings to illustrate future development stages.

The project also included the design for the access road and stormwater controls. The design was based on the final build-out surface that was developed for the capacity analysis. The design incorporated storm water management controls, roadway grading, and drawings used for future planning. As the current operations reach final grades on the exterior slopes, HDR provided an access road phasing plan that illustrated the relocated access road and providing access to the increasing elevations and preserving disposal capacity.

HDR has also completed numerous other projects for Escambia County, including redesign of the scale house entryway, evaluation of the landfill gas collection system, methane gas migration control, financial analysis of landfill gas to energy, landfill closure design and permitting, visible emissions testing, environmental reporting, and assistance with writing solid waste ordinances.

HDR also worked with the County and Escambia County Utilities Authority (ECUA) to help them identify and technically evaluate short and long-term solid waste management solutions and assist in facilitating a process for reaching consensus.



BAY COUNTY

CONTINUING SOLID WASTE ENGINEERING SERVICES, STEELFIELD ROAD CLASS I LANDFILL

CLIENT CONTACT

Glenn Ogborn
850.233.5047
gogborn@baycountyfl.gov

SERVICES PROVIDED

- Landfill Expansion Engineering
- Feasibility Studies
- Financial Assurance
- Environmental Resource Permitting
- Waste Mining

TIME PERIOD

2006 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- Justin Raymond
- Keith Howard, PE,
- Kelsey Heller, EI

PANAMA CITY BEACH, FL — HDR has worked with Bay County for more than 17 years, providing solid waste engineering services at the Steelfield Road, Class I Landfill. The Steelfield Road Class I Landfill receives an average of approximately 1,000 tons-per-day. HDR's recent work primarily consists of infrastructure planning and evaluation, preparation of construction drawings, specifications and bid documents for solid waste projects, studies related to value engineering and/or the cost effectiveness of proposed facilities, process trains, designs and equipment, studies related to solid waste management, master planning, design and system financing/funding, feasibility and implementation, studies related to solid waste rates, special assessments, assistance in meeting environmental and regulatory requirements, conducting public hearings, workshops and presentations, and other general support services.

Over the recent term of the contract HDR performed the following services:

- Feasibility study for a deep well injection of landfill leachate

- Environmental Resource Permitting (ERP) for future landfill expansion areas
- FEMA reimbursement support
- Landfill leachate treatment feasibility study
- Landfill mining FDEP permitting
- Landfill FDEP operating permit renewal
- County solid waste management systems assessment
- Landfill expansion engineering support for design/build bidding
- Exposed Geomembrane Cap feasibility study
- Financial assurance reporting

Moreover, HDR conducted a landfill mining feasibility study and gained FDEP concurrence to perform landfill mining as a long-term viable method of remedial action. This plan involved mining and processing Class III landfill materials and soil for use as operational cover on the Class I landfill. Over the course of life of the existing Class I expansion area, the Class III landfill will be excavated with its cleared footprint intended for the future lined Class I expansion.



VOLUSIA COUNTY

CONTINUING SOLID WASTE ENGINEERING SERVICES

CLIENT CONTACT

Regina Montgomery
386.943.7889
rmontgomery@co.volusia.
fl.us

SERVICES PROVIDED

- Landfill Closure Design and Permitting
- Construction Management
- Landfill Gas
- Environmental Compliance
- NSPS, GHG, and CAA consulting
- NPDES permitting
- Financial Assurance
- Regulatory Coordination and Assistance

TIME PERIOD

2008 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Chelsea Williams, EI
- Kelsey Heller, EI
- Justin Raymond

PORT ORANGE, FL — Since 2008, HDR has been providing continuing environmental and engineering services to Volusia County's Solid Waste Department facilities which include operation of the Class I and Class III areas at the Tomoka Farms Road Landfill, the closed Class I Plymouth Avenue Landfill and a Class I transfer station. Services included environmental monitoring, design, permitting, and construction support for cell closure, and expansion, landfill gas collection and control, LFGTE, annual long-term care cost estimates, volume calculations, groundwater contamination assessment and remedial alternative evaluations, and site assessment investigations.

HDR prepares the annual financial assurance cost estimates for each of the County landfills. The cost estimates were performed using FDEP long form so that the most accurate estimates were generated. A careful review of previous work and an attention to detail helped save the County nearly \$1,000,000 due to an oversight by the previous consultant.

At the Plymouth Avenue Landfill, HDR performed a site assessment related to concentrations of iron, ammonia and thallium in groundwater. The assessment included installation of additional horizontal and vertical delineation monitoring wells, geologic core sample collection, and horizontal hydraulic conductivity testing. The Site Assessment Report included an interpretation of the hydrogeological regime beneath the site, determination of groundwater flow direction, delineation of extent of parameter concentrations and recommendations for further action.

HDR is also assisting the County with evaluating groundwater impacts at the Tomoka Farms Road Landfill. We are responsible for implementation of field data collection activities including the installation of horizontal delineation wells and horizontal hydraulic conductivity testing. HDR has characterized the site hydrogeology to provide a better understanding of the preferred flow paths beneath the site.

HDR supported the County to comply with applicable regulations related to its on-site LFGTE generator. On numerous occasions, HDR coordinated with the LFGTE contractor and County on wellfield operations and communication to reduce the potential for subsurface combustion. HDR prepared the letter to FDEP detailing the observations and the path forward to reduce temperatures in the wellfield.

HDR worked closely with FDEP regarding the landfill's air permit and developed a revised Title V permit application more aligned with neighboring landfills. We conducted blower/flare station analyses, startup/shutdown malfunction plan updates for flare compliance activities and reporting. Our Team also assisted with design, permitting, and construction services for landfill gas expansions and retrofits at the Tomoka Farms Road Landfill.

HDR performed professional engineering services for the construction level design, intermediate permit modification, and construction documents for the closure of the 85-acre North Cell of the Class I Landfill at the Tomoka Farms Road Landfill.

As part of stormwater modifications, HDR provided a hydraulic analysis to show the impact of modified stormwater flow conditions that will occur with construction of the Subtitle D prescribed closure system to the permitted landfill. HDR also conducted a review of the current structures and utilities in the area and determined a number of design improvements that could be implemented at closure to increase the performance of the system to better convey runoff away from the cell.

HDR also assisted the County with development of the Phase II Areas 3 and 4 cell expansions for the Tomoka Farms Road Landfill. HDR performed an Environmental Resource Permit (ERP) application and stormwater management design for a new future Class I Landfill Expansion.



LEE COUNTY

LEE-HENDRY SOLID WASTE FACILITY MASTER PLANNING, CLASS I LANDFILL EXPANSION DESIGN, FDEP PERMITTING, CONSTRUCTION-LEVEL DESIGN, BID SUPPORT, AND CONSTRUCTION ENGINEERING SERVICES AND CQA

CLIENT CONTACT

Linda Braam
239.271.7853
lbraam@leegov.com

SERVICES PROVIDED

- Landfill Expansion Design
- Permitting
- Landfill Construction Management and CQA
- Landfill Master Planning
- Bid Support
- Subsurface Investigation

TIME PERIOD

2020 - Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Kanishka Perera, PhD, PE
- Joshua Miller, PE
- Doug DeCesare, PE
- Joel Miller, PE
- Justin Raymond
- Jeff Murray, PE
- John Catches, PG
- Tom Yanoschak, PE
- Keith Howard, PE,
- Chelsea Williams, EI
- Kelsey Heller, EI
- Van Smith, PE

FELDA, FL — In 2020, HDR was selected as the County's consulting partner for the Lee-Hendry County Solid Waste Facility. Our services included planning, designing, permitting, and overseeing the construction of a 15-acre Class I landfill expansion. HDR initially provided an updated landfill master plan for the remaining 56-acre Class I footprint and subsequently designed and permitted the finalized area for future development. Following the FDEP permit approval, HDR delivered a detailed design and construction documents for the 15-acre Class I footprint that included three sub-cells and a future expansion spanning 29 acres.

In response to the impact of Hurricane Ian in 2022, which affected the solid waste disposal rate and necessitated the development of additional airspace sooner than anticipated, HDR accelerated the design of second expansion. Our permit-level design was approved in 2021 with zero delays, and construction was already in progress on the

15-acre expansion area when Hurricane Ian struck Fort Myers. HDR responded with accelerated engineering services to address the County's urgent solid waste needs.

Detailed tasks and activities for the project included:

- Conceptual design services
- Contract administration services
- Coordination with the FDEP
- Review of existing site data
- Subsurface investigations and reports
- Aerial surveying and ground surveying
- Surface water management analysis and ERP
- Operational fill sequencing
- Global stability analysis
- Leachate system analysis
- Landfill gas collection system master plan
- Soil options analysis
- Bid support
- Permit and construction level designs
- Construction management services
- Full-time CQA services and cell certification



HERNANDO COUNTY

SOLID WASTE ENGINEERING CONSULTING SERVICES

CLIENT CONTACT

Scott Harper
352.754.4791
Sharper@co.hernando.fl.us

SERVICES PROVIDED

- Operations Assistance
- Permitting
- Groundwater
- Facility Master Plan
- ERP Modification
- Title V
- Greenhouse Gas Management

TIME PERIOD

2009-2013; 2018-Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Justin Raymond
- Keith Howard, PE,
- Hala Sfeir, PE
- Francis Cheung, PE

BROOKSVILLE, FL — From 2009 to 2013 and from 2018 to the present, HDR has provided a variety of solid waste services to Hernando County, including onsite operational assistance, permitting and renewals, groundwater and geotechnical issues, facility master plan design and landfill gas (LFG) assistance including Title V and greenhouse gas management.

HDR assisted the County with the 19.5-acre partial closure for the Northwest Waste Management Facility (NWWMF). The Phase I Landfill Closure project included the design and construction of a 40-mil LLDPE/geocomposite closure cap, two feet of cover soil from onsite sources, gabion downchutes and an expansion of the LFG collection system. The permit application included veneer slope stability analysis, road stability analysis, modifications to the stormwater control system, geocomposite drainage evaluation and technical specifications. HDR obtained the solid waste permit with only one regulatory Request for Additional Information.

HDR prepared an Environmental Resource Permit (ERP) modification application to modify the NWWMF's stormwater control. HDR was also able to combine all the existing ERPs into one facility-wide permit thus reducing redundancy and future permit obligations. Again, HDR obtained the ERP with only one regulatory Request for Additional Information.

HDR prepared an update of the NWWMF master plan design. HDR worked closely with landfill operators to make the most efficient use of potential airspace and ensure that the facility remains the center of County solid waste operations for several decades. The plan encompassed the future of solid waste disposal activities for the 300-acre property including citizen's waste drop-off areas, recycling, MSW disposal, C&D disposal and borrow soil. The plan included cost projects for expansions and phased closures. The plan addressed concerns regarding geotechnical analysis and potential regulatory concerns,

The facility falls under the requirements of the Clean Air Act-NSPS for LFG generation. HDR worked with regulators to provide a smooth permitting process for acquiring the facility's Title V air permit. County solid waste staff looked to HDR to communicate directly with FDEP SW District Air District staff during the permitting process. Our excellent working relationships with the FDEP SW District staff were important in making the process efficient and resulted in specific permit conditions which will not create undue burden on the County.

HDR has performed several other tasks for the County. HDR performed the Croom Landfill Environmental Stability Permit Renewal for FDEP approval in 2018 and has provided annual greenhouse gas reporting at NWWMF since 2019. HDR also submitted the compost facility permit application to FDEP for the processing of yard waste and wastewater biosolids at the NWWMF. The County received the FDEP permit approval in 2022.



HERNANDO COUNTY

NORTHWEST WASTE MANAGEMENT FACILITY CELL 4 CLASS I LANDFILL EXPANSION MASTER PLANNING, CLASS I LANDFILL EXPANSION DESIGN, FDEP PERMITTING, CONSTRUCTION-LEVEL DESIGN, BID SUPPORT, AND CONSTRUCTION ENGINEERING

CLIENT CONTACT

Scott Harper
352.754.4791
Sharper@co.hernando.fl.us

SERVICES PROVIDED

- Landfill Expansion Master Planning
- Landfill Expansion Design
- FDEP Permitting
- Construction Engineering
- Bid Support

TIME PERIOD

2019-Ongoing

TEAM MEMBERS ON THIS PROJECT:

- Mark Roberts, PE
- Kanishka Perera, PhD, PE
- John Catches, PG
- Justin Raymond
- Keith Howard, PE,
- Kelsey Heller, EI
- Chelsea Williams, EI

BROOKSVILLE, FL — In 2019, HDR was selected to plan, design, permit, and oversee construction of Cell 4, an approximate 30-acre Class I landfill expansion of the Northwest Waste Management Facility (NWWMF). HDR developed a landfill master plan that incorporated site features, future landfill cells, a future compost facility, and an expanded landfill gas collection system. The future landfill cells expanded the landfill's capacity, ensuring usability until 2083.

HDR secured the necessary permits for the 30-acre expansion with FDEP with only one minor Request for Additional Information (RAI). The project continued on schedule for cell excavation in 2022. Special design features included a woven geotextile deployed as an additional structural component beneath the double liner system to address potential sinkhole development within the landfill footprint.

For Cell 4, HDR designed leachate collection and detection systems to incorporate side slope riser pipes connected to above-ground

leachate storage tanks. The Cell is divided into three sub-cells for initial operational flexibility and leachate/stormwater management. This approach resulted in cost savings, enabling collected stormwater in the new cells to be pumped out.

Detailed tasks and activities for the project included:

- Permit and construction-level design services
- ERP permitting and construction-level design services
- Develop sinkhole remediation plan and successful implementation
- Cell excavation plans, specifications, bidding, cost estimate and construction support to excavate 1 million+ CY of soil & boulders
- Contract administration services
- Coordination with the FDEP
- Subsurface investigations and reports
- Aerial surveying and ground surveying
- Operational fill sequencing
- Global stability analysis
- Leachate system analysis

5 PROJECT APPROACH

Budget Methodology/Cost Control

HDR will meet your budget requirements for each project through a proven approach to project execution. We understand financial constraints and applying the appropriate level of design for each unique project. Our team will work with the County to verify budget constraints and expectations for every assignment. Task Order based assignments usually start with a phone call or an email request from the Procurement Department or Solid Waste Services Manager. Our project manager, Mark Roberts, will review the project requirements and prepare a scope of work, an initial staff hour/fee estimate and a project schedule for review and approval by County staff. For more complex projects, or if the scope reflects new or unique requirements, Mark will pull in the appropriate HDR subject matter experts to meet with the County to discuss the issues and essential scope elements.

Task Assignment Approach

Develop Scope of Work: It is extremely important that the goals and objectives of the task assignments are clearly defined and understood by each team member. The scope developed for each task forms the basis for staffing the assignment and for estimating the level of effort required to complete the task. For the more complex task order assignments, Mark will engage the team members who are most knowledgeable in the various study or design elements to develop the scope content for these specialized work elements, which will be integrated into the overall scope of work. The staff hour/fee estimates for the various elements of the task will be similarly developed.

Develop Staffing Plan: A specific staffing plan will be developed to fit the requirements of the task. One of our objectives in this phase is to make staffing assignments based on the level of experience that is required for the job. HDR will manage County resources judiciously and we will assign the most appropriate staff who have the required skills and abilities for the task at hand and who are the most cost-effective personnel.

Staff Hour/Negotiations: Once we have a clear understanding of the scope and the staffing requirements, staff hours will be finalized and the fee estimate can be developed based on established rates and procedures. This effort normally takes place concurrently with the refinement of the scope. We understand the need to accomplish the required work within your budget guidelines and we will not pursue supplements unless there are significant unforeseen scope changes.

- DEVELOP SCOPE OF WORK
- DEVELOP STAFFING PLAN
- STAFF HOUR/NEGOTIATIONS
- DEVELOP SCHEDULE
- COORDINATION
- MONITOR PROJECT COST

Develop Schedule: A basic schedule defining the major tasks and proposed milestone delivery dates will be prepared for all task order assignments. For studies or certain other assignments, the schedule may be comprised of draft and final delivery dates. HDR will commit the resources required to meet the schedule defined by the County's Project Manager and verify we are meeting the County's overall needs.

Coordination: HDR will administer and manage all tasks assigned under this contract. Mark will serve as the primary contact for the County and will work directly with the County staff to initiate the work on task assignments. He will keep the County's Project Manager informed regarding all relevant issues with a focus on key items requiring County feedback. Our extensive experience delivering solid waste services has allowed our team to continue enhancing our communication and coordination procedures to deliver superior projects to the County.

Monitoring Project Costs: An important internal resource available to the project manager is HDR's customized Oracle software, E-Business Suite (EBS). This program is used to assess workload requirements and estimated costs to complete assignments, as well as all relevant project information including project status, history, remaining budgets vs. future work, labor costs, expenses, and staff availability. Mark will use this tool to monitor project expenditures and develop Labor Forecast Analysis reports.

Project Management Plan

For a project to be considered a success, work must be completed on schedule, within budget, and error free. At the start of each project, our project manager prepares a Project Management Plan (PMP) to document all information necessary to execute a successful project.

The PMP is an internal document that serves as a road map for the project team. The PMP complies with local, state, and federal guidelines and requirements and defines the vision; implementation strategy; schedule and budget criteria; and the policies, procedures, and standards for the project. The PMP is the master reference document for the team and provides guidance to subconsultants engaged throughout the life of the program, from inception through planning, design, and construction. The PMP provides a level of continuity and standardization to facilitate time and cost-effective communications and decision-making. The PMP serves as a formal process to monitor risks, minimize costs, reduce scope creep, and identify potential schedule impacts.

We use a combination of company-developed tools and procedures for delivering consistency in our work, managing internal tasks, maintaining communication, and staying ahead of schedule and under budget. We are always willing to incorporate new methods as our clients and project work dictates.

The Project Management Plan includes:

- Program Organization Chart
- Scope Management
- Cost Estimates Requirements
- Communication Plan
- Document Control
- Project Controls Plan
- Procurement Management
- Contract Management
- Engineering Management
- Quality Assurance & Quality Control (QA/QC)
- Environment, Health & Safety Measures
- Dashboard & Reporting
- Closeout Procedures

SHARE GOALS

- Vision for the Future
- Team Relationships
- Complete Plans
- Determine Resources
- Project Guidelines & Procedures

EXECUTE PROJECT

- Risk Assessment/Project Initiation
- Project Monitoring/Control
- Project Development
- Project Deliverables

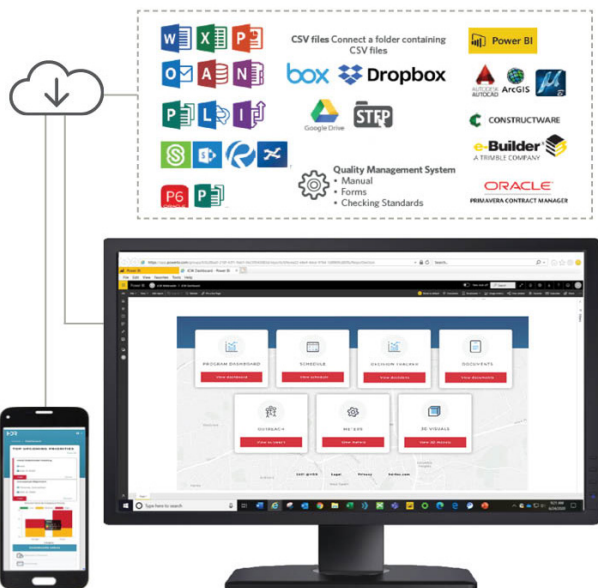


EFFECTIVELY COMMUNICATE

- Client Staff
- HDR Management
- Project Team
- Subconsultants
- Stakeholders

MONITOR QUALITY

- Project Planning Review
- Risk Assessments
- QC Checking
- QC Reviews
- Project Reviews



Project Management Information System

Our Project Management Information System (PMIS) integrates scope-of-work activities with schedule, resources, and budget details. The PMIS system is a customizable, secure, and scalable cloud-based platform. PMIS provides a one-stop visual workspace through dashboards and pages that captures data from numerous software programs to monitor defined and desired workflows. We foster transparency and communication through coordination meetings and a number of communication tools.

5 PROJECT APPROACH

Quality Control Methodology

Our Project Manager, Mark Roberts, will lead the quality component for Hernando County's Landfill Continuing Engineering Services Contract. Mark will work closely with technical support staff through all phases and elements of the contract to achieve the level of quality needed to make it successful.

HDR's focus on quality is a mindset shared by every member of our team. It starts by clearly understanding expectations and making a commitment to meeting them with every deliverable. HDR's Quality Program focuses on the proactive use of QA procedures, coupled with comprehensive QC reviews of program deliverables to verify the scope, schedule, budget, and deliverables are consistent with program goals.

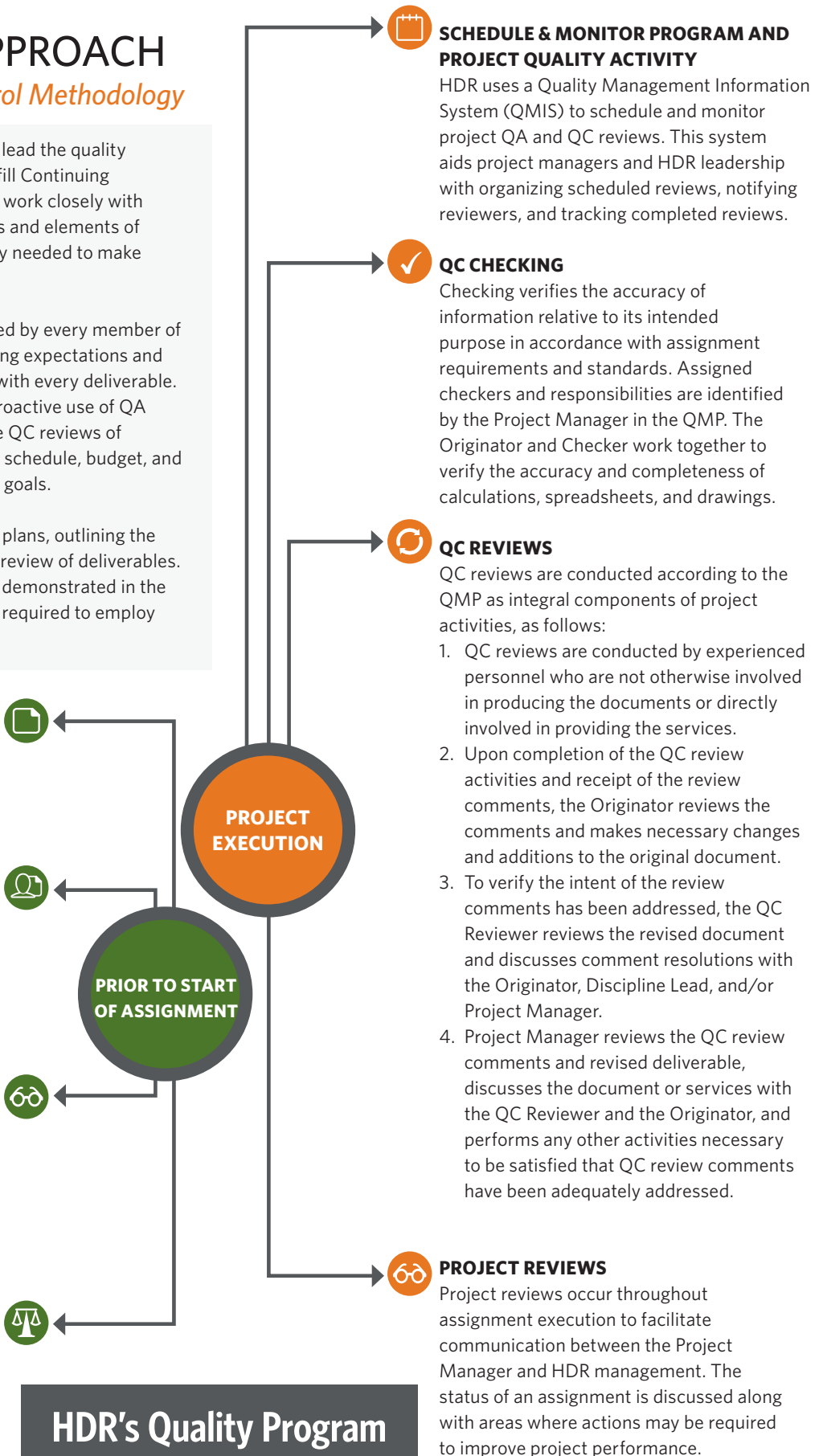
We will prepare project-specific QA/QC plans, outlining the independent subject matter experts and review of deliverables. HDR's established QA/QC elements are demonstrated in the graphic on this page. Subconsultants are required to employ similar quality review processes.

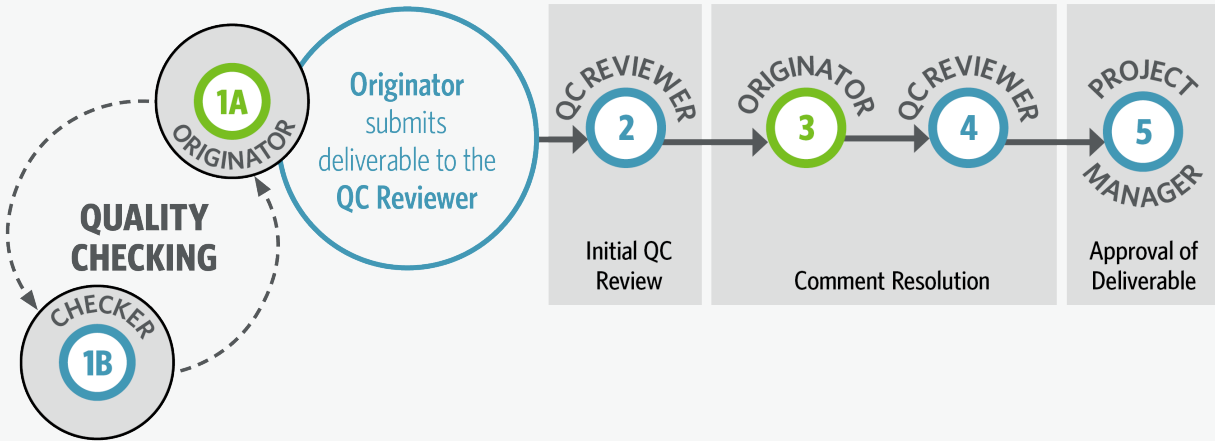
PROJECT MANAGEMENT PLAN (PMP)
A PMP is created and communicated to the project team by the Project Manager. The PMP includes guidelines for project team members to efficiently and effectively execute each assignment.

QUALITY MANAGEMENT PLAN (QMP)
A QMP is created and communicated to the project team by the Project Manager. The QMP provides details on how QA and QC activities shall be performed.

PROJECT PLANNING REVIEW
A planning review is scheduled with the Project Manager and appropriate local leadership to discuss and verify contractual, business, and management issues have been adequately prepared and planned for prior to the beginning of task assignment execution.

RISK ASSESSMENT
Risk assessments are performed throughout each assignment. Mitigation plans are developed and reviewed with senior management for assignments with identified elevated risks.





Quality Assurance/Quality Control

HDR's QA/QC Program has been built around several key elements of HDR's mission and values which consist of:

- Maintaining a reputation for quality performance
- Client satisfaction
- Continuous process improvement
- Open communication
- Team work

HDR is a collaborative environment where all personnel share information on a staff-wide basis to help deliver consistency, quality, and innovation to our clients. HDR's Quality Assurance Plan is based on very simple standards. No work will leave until the HDR Project Team QA/QC leader has verified that the requirements of the Project Quality Control Plan have been met.

HDR's professional services are based on sound principles that meet the standards of professional practice and satisfy the quality requirements of the Scope of Services. HDR's Project QA/QC Manager for this project, Doug DeCesare, will develop and distribute copies of the project-specific Project Quality Control Plan to all team members. All project team members are required to use the QC Production and Review Procedures. HDR's Project Manager, Project QA/QC Manager, and the entire Project Team together are committed to applying sound engineering principles and producing quality, accurate and complete documents.

Team Member Coordination

Mark will be responsible for coordination among the HDR team members, including subconsultants, and will use the project schedule to closely monitor and coordinate team efforts. Staff selected for the project will be knowledgeable and experienced to best match the project needs. The assignment of appropriate staff will allow quick and efficient execution of the tasks at hand and allow the project to be completed on schedule and within the budget. For each task or assignment, Mark will identify a lead technical person with the appropriate experience and skills to be responsible for day-to-day management of the task.

HDR'S QUALITY CONTROL METHODOLOGY INCLUDES STEPS TO CHECK THAT:

- ✓ County procedures are followed
- ✓ Project is designed for durability and maintainability.
- ✓ Energy efficiency improvements are considered through an integrated design process, life cycle costing, energy standard(s), and the specification of energy efficient materials

The HDR Team has provided resources that are available for this project; the depth and breadth will allow the HDR Team to address all project needs identified by the contract scope. Formal internal project reviews will occur at key moments of the project. A "zero percent" review at the outset of the project ensures that our entire team is fully engaged and our project management systems are deployed. Milestone project reviews help keep the entire team accountable for project success and help manage project budget and schedule. Routine project communication include conference calls, web meetings, labor forecast meetings, and document QC sessions.

5 PROJECT APPROACH

Schedule

Project Understanding

HDR understands that Hernando County (County) is seeking a consultant to perform continuing landfill engineering services. HDR is a full service solid waste engineering firm that performs all of the consulting services listed in the RFQ. Throughout this section, we've called out specifically where each scope item and qualification item apply.

HDR PERFORMS ALL SERVICES LISTED IN RFQ

Scope Items	Qualification Items
A Solid waste planning	1 Landfill permitting and renewals
B Subsurface investigation	2 Leachate management
C Permit renewals	3 Groundwater issues
D Environmental evaluations	4 Landfill gas control and collection
E Economic evaluations	5 Gas to energy systems
F Rate studies	6 Rate evaluation
G Pro formas	7 Waste stream analysis
H Stabilization studies	8 Master plan update
I Annual reporting requirements	

Our team consists of engineers, planners and procurement experts from HDR; financial experts from Raftelis; engineering resources currently assisting the County from JHS Environmental Engineering (JHS); and geotechnical & subsurface investigation experts from Ardaman and Associates, Inc. (Ardaman). This team has vast experience in providing the above referenced services as demonstrated by our qualifications.

Engineering Services

The HDR team currently provides Landfill Engineering Services to the Hernando County solid waste and recycling department. Our staff continuity enables HDR to bring our personnel with experience in the Northwest Solid Waste Management Facility (NWSWMF) to the project team. We have in depth and readily available staff to provide all of the services required by the County in a timely and cost-effective manner. The following sub-sections describe HDR's understanding of some of the services that may be required during the contract period:

Support Existing Operations

HDR will support the County's existing operations by fulfilling the County's ongoing reporting & permitting requirements.

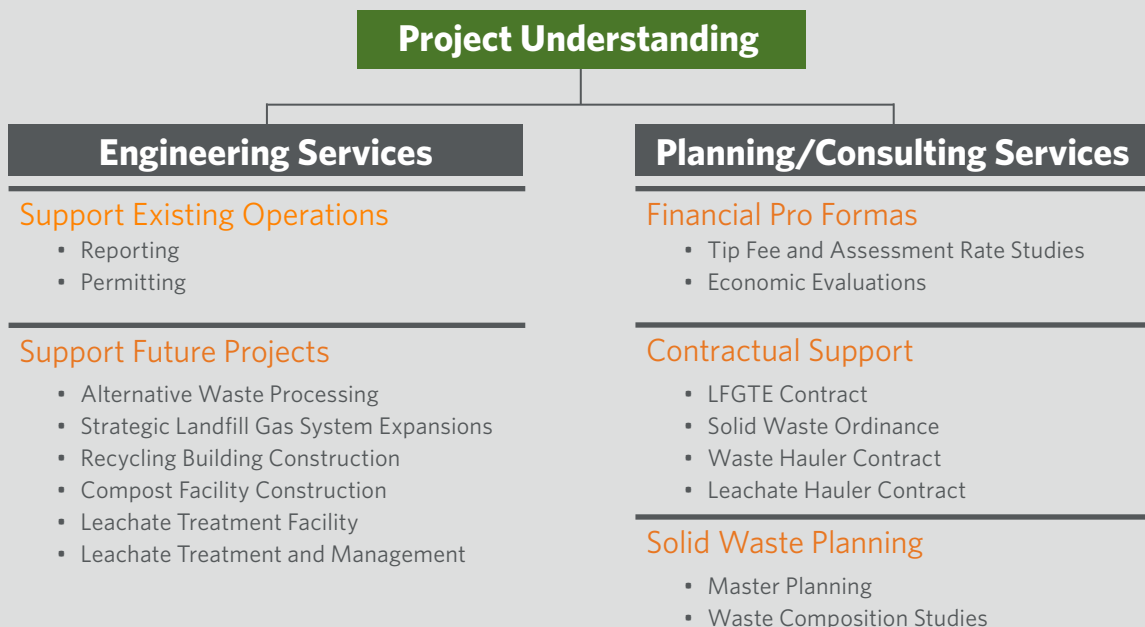
Existing Operations Items Covered

- ✓ **C** Permit renewals
- ✓ **H** Stabilization studies
- ✓ **I** Annual reporting requirements
- ✓ **1** Landfill permitting and renewals
- ✓ **3** Groundwater issues

Reporting: HDR will prepare and submit compliance reports in advance of the regulatory deadlines.

HDR has extensive experience in providing reporting services for clients throughout the FDEP Southwest District office and Tallahassee headquarters. HDR will provide the County dedicated team for maintaining its regulatory compliance through timely compliance reporting for both solid waste and air branches of the FDEP. The tables on the following page illustrate HDR's understanding of the County's current reporting requirements.

A MAP TO OUR APPROACH



SOLID WASTE REPORTING

Facility ID	Report	Due Date
NW-C1	Remaining Site Life	September 1 every year
NW-C1	Waste Quantity	January 15 every year
NWSWMF & CRLF	Quarterly Perimeter Gas Probe Monitoring	Within 15-days after end of each quarter
NWSWMF & CRLF	Semiannual Groundwater Monitoring	Within 60-days after laboratory analysis
NW-C1	Groundwater MPIS Technical Report	3/31/2025; 9/30/2027; 3/31/2029
NW-C1	Leachate System Inspections	Every 5-years
NWSWMF	Closure & Long Term Financial Assurance	September 1 every year
NW-C&D	Annual Report	February 1 every year
NW-C&D	Groundwater MPIS Technical Report	9/30/2025
CRLF	Biennial Passive Vent Monitoring	With Quarterly Gas Probe Monitoring
CRLF	Stabilization Report	10/15/2024; 10/15/2029
CRLF	Groundwater Monitoring, Expanded Parameter List	10/15/2024
CRLF	Quarterly Leachate Generation	By 1/15; 4/15; 7/15; 10/15 every year
NWSWMF & CRLF	Other As Needed Reports (e.g., Well Completion)	As needed and as specified in permit

AIR REPORTING

Facility ID	Report	Due Date
NWSWMF	Annual Operating Report & Emission Fee	April 1 every year
NWSWMF	Greenhouse Gas Report	March 31 every year
NWSWMF	NMOC Tier II Testing	Every 5-Years (Due by September 2028)

NWSWMF Northwest Solid Waste Management Facility (Class I & C&D Landfills)
NW-C1 Northwest Class I Landfill
NW-C&D Northwest C&D Landfill
CRLF Croom Landfill (Closed)

Permitting: The HDR team has an excellent working relationship with Florida regulators and have carried out permitting efforts seamlessly. Mark Roberts, HDR’s Project Manager has successfully permitted dozens of landfill facilities and has worked with the FDEP on their rule making committees setting the latest rules and requirements for landfill facilities. HDR will provide permitting assistance to the County, including the facility permit renewals in the following table.

FACILITY PERMIT RENEWALS

Facility ID	Report	Renewal Due Date
NW-C1	Class I permit	June 7, 2035
NW-C1	5-Year Interim Class I Permit Update	8/7/2025; 8/7/2030
NW-C&D	C&D Long Term Care (LTC)	Annual
CRLF	Class I LTC Permit	October 16, 2024
NWSWMF	Title V Air Permit	12/2023; 12/2028

Support Future Projects

Alternate Waste Processing: HDR understands the County’s desire to explore alternate waste processing technologies. HDR has extensive evaluation, design and operations experience in traditional composting, anaerobic digestion (AD), materials recovery facilities, mixed waste processing etc. HDR understands the County’s desire to evaluate composting and AD further. HDR will partner with the County to analyze these project and assist in developing these projects if feasible.

Future Projects Items Covered

- ✓ **A** Solid waste planning
- ✓ **B** Subsurface investigation
- ✓ **D** Environmental evaluations
- ✓ **1** Landfill permitting and renewals
- ✓ **2** Leachate management
- ✓ **3** Groundwater issues
- ✓ **4** Landfill gas control
- ✓ **5** Gas to energy systems
- ✓ **7** Waste stream analysis

- **Compost Facility:** HDR permitted a compost facility at the NWSWMF. HDR’s teaming partner, JHS, is currently assisting the County with preliminary logistics associated with constructing a Compost Facility. HDR will utilize the information to assist the County in developing a fully functional compost facility. HDR has successfully permitted and designed compost facilities to incorporate sludge, food wastes, and wood debris.

- **New Recycling Facility:** HDR understands that the recycling facility at NWSWMF was destroyed by fire recently. Limited recycling operations are currently conducted at a temporary facility. HDR understands the immediate need for a state of the art recycling facility to the County. HDR’s in house professionals have previously designed and constructed waste recycling facilities throughout the County. HDR can look into constructing the future recycling facility in conjunction with the compost facility for cost saving purposes.



Strategic Landfill Gas Expansions: HDR understands the County's desire to accelerate and augment LFG production upon the conclusion of the current gas to energy contract. HDR will examine various options with the County to increase LFG production with minimal additional cost to the County. These options include:

- Retrofitting leachate lines in Cell 3 of the Class I landfill with LFG wellheads;
- Retaining existing wells on Cells 1 & 2 and Cell 3 interface by adding remote wellheads or vertical extensions using caisson or Termite Well Perforator™ >> technologies; and
- Installing planned horizontal collectors with vertical drains for efficient and cost effective gas collection from future waste to be disposed of in Cells 1 to 4.

Transfer Station Upgrades & Development: HDR has a dedicated facilities team lead by Bob Rella. HDR will fully support the County in transfer station related work. We are experienced in transfer station upgrades and also planning and developing a new facility.

Leachate Treatment and Management: Should the County have any leachate management related needs, HDR will be engaged to solve leachate management related issues. Currently, HDR is providing leachate treatment options to utilize treated leachate on-site for Volusia County in Florida and has site-specific information that could benefit Hernando County in this Field.

Planning/Consulting Services

HDR understands that the County's solid waste system serves approximately 78,000 residential units and disposes of over 150,000 tons of waste annually primarily to the NWWMF. HDR's team, consisting of HDR, Raftelis and JHS, will coordinate with the County to ensure continuity of planned and efficient solid waste services to residents of the County. HDR's team has provided the County planning and consulting services successfully in the past and look forward to continue the partnership in the future.

Financial Pro Formas

HDR is intimately familiar with the County's past and on-going financial Pro-Formas. Raftelis (formally PRMG), HDR's teaming partner, has assisted the County in its annual solid waste revenue sufficiency analysis, alternate waste disposal financial evaluations and various other economic evaluations, such as marginal cost of landfilling analysis. HDR will continue to provide financial pro-forma services to the County, including tip fee and economic evaluations described below.

Financial Pro Formas Items Covered

- ✓ E Economic evaluations
- ✓ F Rate studies
- ✓ G Pro formas
- ✓ 6 Rate evaluation

Tip Fee and Assessment Rate Studies: HDR's teaming partner Raftelis (formally PRMG) was previously assisted the County with evaluation of the anticipated billing change from monthly billing to special assessment. HDR team will continue to provide the County tip fee and assessment rate study related services.

Economic Evaluations: HDR provides a wide variety of expertise in economic evaluations. HDR will assist the County in evaluating various planning and engineering options. For example, should the County consider identifying new waste streams in and outside the County, HDR's planning experts will collaborate with the County in developing strategic and financial plans to evaluate such options.

Contractual Support

HDR's team includes technical and procurement experts who can provide contractual support to the County. Few examples of contractual support related services are detailed below that can be of interest to the County.

Contractual Support Items Covered

- ✓ A Solid waste planning
- ✓ 4 Landfill gas control
- ✓ 5 Gas to energy systems

LFGTE Contract: HDR is a leading landfill gas to energy consultant with LFGTE technical experts who have "owner's engineer" and "developer" experience in such projects. HDR can provide a full scale services in negotiating LFGTE contracts with the developer.

Solid Waste Ordinance: HDR has extensive experience in providing solid waste ordinance assistance services to municipal clients in and outside Florida. HDR can work closely with the County to evaluate commercial/residential ordinances in place



Raftelis (formally PRMG), HDR's teaming partner, assisted the County in identifying additional costs ranging from \$12-16 million from an alternate waste processing vendor. These additional cost findings assisted the County in making an informed decision on the proposed technology.

and can partner with the County to find avenues to better streamline solid waste management services within the County.

Waste Hauler Contract Negotiations: HDR understands that the County has various waste hauler contracts for its four districts. HDR has extensive experience in contract negotiations with the waste haulers, and should situation arises, HDR will collaborate with the County to undertake negotiations of various contractual items, such as collection frequencies, billing rates etc.

Leachate Hauler and Treatment Contracts: HDR understands that the County is currently hauling leachate to third party treatment plants to treat and disposal. Due to quality of leachate, some of the treatment plants have shown reluctance to accept county generated leachate. HDR's teaming partner JHS has assisted the County negotiating treatment contracts and finding alternate solutions to manage NWWMF generated leachate. Our team will continue to examine leachate treatment options for the County.

Solid Waste Planning

HDR team has assisted various municipal clients in and outside Florida with solid waste planning needs. In fact, HDR has assisted the County with NWWMF's Site Master Plan in the past. HDR will continue to collaborate with the County to assist with various planning needs. A few examples of such projects are provided below.

Solid Waste Planning Items Covered

- ✓ **A** Solid waste planning
- ✓ **7** Waste stream analysis
- ✓ **9** Master plan update

Master Planning: HDR will assist the County in various master planning aspects, including:

- **Overall Solid Waste Master Planning:** If needed, HDR is fully capable of evaluating the County's existing solid waste program. Various components of the master plan can include analyzing collection efficiency with in four districts, public outreach to promote diversion and recycling awareness, different disposal and processing technologies, need for future transfer stations, social return on investment associated with solid waste programs, carbon footprint of solid waste program etc.
- **Landfill & LFG Master Planning:** HDR has previously prepared the NWWMF's site master plan and can update the plan by discussing such items with the County: compost and anaerobic digestion and impacts to the solid waste program, fill sequence planning etc. HDR can also update the master plan for increased LFG collection from the landfill. HDR has prepared LFG master plans for numerous municipal clients and can collaborate with the County to plan LFG expansions with minimal cost and maximum benefits to the County.



Our expertise in LFGTE contract reviews will allow us to assist the County with contract negotiations and explore opportunities to increase revenue.

Waste Composition Studies: HDR teaming partner, JHS, has intimate knowledge of the County's previous waste composition studies. HDR's extensive knowledge in performing such studies and HDR's familiarity with the County's solid waste system will enable HDR to plan and perform waste composition studies to achieve targeted goals, such as evaluating recycling numbers for solid waste master planning and identifying waste fractions (Class I, yard waste etc) for determining accurate assessment rates for the County's residents.

EXISTING AND PROPOSED FUTURE FACILITIES AT THE NORTHWEST SOLID WASTE MANAGEMENT FACILITY



6 WORK LOCATION

HDR's managing local office for Hernando County is located at 4830 W Kennedy Blvd., Suite 400, Tampa, FL 33609. **Our Project Principal and local production center are located in the HDR Tampa office, located less than 59 miles from the Hernando County Solid Waste and Recycling Department.**

HDR has carefully selected each team member for this contract based on their experience, proximity to Hernando County, and their ability to augment our deep bench of Florida staff. Our team members have proven performance with Hernando County, and all team members will continue to provide the County with prompt, responsive, and quality services.

As a national firm, HDR will also utilize industry-leading experts from additional locations in Florida and variety of offices nationwide, as needed. All of our proposed solid waste team members routinely work with one another and have worked together on projects of similar scope and size. Furthermore, our Project Manager, Mark Roberts, is very familiar with Hernando County's staff and Solid Waste and Recycling Department. We do not see foresee any challenges with the proximity of our team and team member coordination.



PRIMARY FLORIDA OFFICE LOCATIONS
 Jacksonville, FL | Orlando, FL | Tallahassee, FL
 Tampa, FL | Sarasota, FL | Pensacola, FL
 Doral, FL | Fort Lauderdale, FL
 West Palm Beach, FL

CONTACT DETAILS
HDR Local Office: Tampa, FL
Address: 4830 W Kennedy Blvd., Suite 400, Tampa, FL 33609
Main Phone Number: 813.282.2300
Fax Number: 813.282.2430
Email: Mark.Roberts@hdrinc.com
Website: www.hdrinc.com

SUBCONSULTANT WORK LOCATIONS	
SUBCONSULTANT FIRM WORK ADDRESS	MILES FROM COUNTY
JHS Environmental Engineering 278 Needles Trail, Longwood, FL 32779	76 mi.
Ardaman & Associates 8008 South Orange Ave., Orlando, FL 32809	83 mi.
Raftelis 341 N. Maitland Ave., Suite 300, Maitland, FL 32751	83 mi.

HDR's Florida Practice
 Started in Tampa and opened in
1974

TODAY WE HAVE

9 PRIMARY FLORIDA OFFICE LOCATIONS

400+ FLORIDA STAFF

14.2 Exceptions

We request consideration of the following exceptions.

SECTION 21

COST ESTIMATING

Any opinions of probable project cost or probable construction cost provided by ENGINEER are made on the basis of information available to ENGINEER and on the basis of ENGINEER 's experience and qualifications, and represents its judgment as an experienced and qualified professional engineer. However, since ENGINEER has no control over the cost of labor, materials, equipment or services furnished by others, or over the construction contractor(s)' methods of determining prices, or over competitive bidding or market conditions, ENGINEER does not guarantee that proposals, bids or actual project or construction cost will not vary from opinions of probable cost ENGINEER prepares.

SECTION 21

CONSTRUCTION CONTRACT ADMINISTRATION

ENGINEER's observation or monitoring portions of the work performed under construction contracts shall not relieve construction contractor(s) from responsibility for performing work in accordance with applicable contract documents. ENGINEER shall not control or have charge of, and shall not be responsible for, construction means, methods, techniques, sequences, procedures of construction, health or safety programs or precautions connected with the work and shall not manage, supervise, control or have charge of construction. ENGINEER shall not be responsible for the acts or omissions of construction contractor(s) or other parties on the project. The COUNTY agrees to contractually require its construction contractor(s) to indemnify Consultant for damages resulting from the negligence of the contractor and its subcontractors. The COUNTY also agrees to include a provision in the construction contract with its contractor(s) requiring them to name Consultant as an additional insured on contractor(s)' commercial general liability insurance.