

CCNA2018 WORK ORDER NO. 1

2018 INDIAN RIVER COUNTY LANDFILL WATER QUALITY TECHNICAL REPORT

This Work Order Number 1 is entered into as of this \_\_\_ day of May, 2018, pursuant to that certain Continuing Consulting Engineering Services Agreement for Professional Services entered into as of this 17<sup>th</sup> day of April, 2018 (collectively referred to as the "Agreement"), by and between INDIAN RIVER COUNTY, a political subdivision of the State of Florida ("COUNTY") and CDM Smith Inc. ("Consultant").

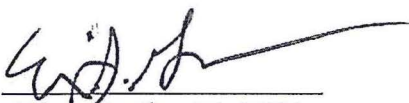
The COUNTY has selected the Consultant to perform the professional services set forth on Exhibit A (Scope of Work), attached to this Work Order and made part hereof by this reference. The professional services will be performed by the Consultant for the fee schedule set forth in Exhibit B (Fee Schedule), attached to this Work Order and made a part hereof by this reference. The Consultant will perform the professional services within the timeframe more particularly set forth in Exhibit A (Time Schedule), attached to this Work Order and made a part hereof by this reference all in accordance with the terms and provisions set forth in the Agreement. Pursuant to paragraph 1.4 of the Agreement, nothing contained in any Work Order shall conflict with the terms of the Agreement and the terms of the Agreement shall be deemed to be incorporated in each individual Work Order as if fully set forth herein.

IN WITNESS WHEREOF, the parties hereto have executed this Work Order as of the date first written above.

CONSULTANT:

BOARD OF COUNTY COMMISSIONERS  
OF INDIAN RIVER COUNTY

By:

  
Eric J. Grotke, PE, BCEE

By:

\_\_\_\_\_, Chairman

Print Name:

\_\_\_\_\_

Title:

Vice President

BCC Approved Date:

\_\_\_\_\_

Attest: Jeffrey R. Smith, Clerk of Court and Comptroller

By:

\_\_\_\_\_  
Deputy Clerk

Approved:

\_\_\_\_\_  
Jason E. Brown, County Administrator

Approved as to form and legal sufficiency:

\_\_\_\_\_  
Dylan T. Reingold, County Attorney

## EXHIBIT A

### AUTHORIZATION FOR PROFESSIONAL SERVICES INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT ENGINEERING SERVICES FOR 2018 WATER QUALITY TECHNICAL REPORT

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This Authorization, when executed, shall be incorporated in and become part of the Continuing Contract Agreement for Professional Services between the Indian River County Solid Waste Disposal District (COUNTY), and CDM Smith Inc. (CONSULTANT), dated April 17, 2018, hereafter referred to as the Contract.

#### BACKGROUND

##### *Water Quality Technical Reports*

Technical Reports of groundwater quality at the COUNTY Class I and Construction and Demolition (C&D) Landfills must be submitted to the Florida Department of Environmental Protection (FDEP) in accordance with Chapter 62-701.510, Florida Administrative Code (F.A.C.) and the Water Quality Monitoring Plans (WQMPs) of operations Permit Nos. 0128769-023-SO (Class I) and 0128769-025-SO-024 (C&D). By rule, the Technical Reports are due every two and one-half years and cover water quality data collected for the previous five routine water quality monitoring events. The WQMPs state that the Technical Report that will be prepared under this Authorization will include five monitoring events performed from January 2016 through January 2018 in accordance with the current rule. However, because the last Technical Report prepared in May 2015 was prepared under the previous rule that required a Technical Report after four monitoring events and permitting for the Class I Landfill was in progress, the July 2015 monitoring event was not included. As discussed with FDEP during the permitting process, this Technical Report will include the July 2015 monitoring event.

#### SCOPE OF SERVICES

CONSULTANT will undertake the preparation of the Water Quality Technical Report based on the requirements of Chapter 62-701.510(8)(b), F.A.C. and the monitoring and reporting requirements as of the authorization date of this Work Order. An amendment to this Scope of Services may be needed if there are any regulatory changes that result in additional work.

#### TASK 1.0 – WATER QUALITY TECHNICAL REPORT

CONSULTANT will prepare and submit a technical report in accordance with the WQMPs and Chapter 62-701.510(8)(b), F.A.C. The report will be based on laboratory data received from the COUNTY for the July 2015, January 2016, July 2016, January 2017, July 2017, and January 2018 semi-annual monitoring events. The report will include:

1. Tabular displays of any data which shows that a monitoring parameter has been detected, and graphical displays of any leachate key indicator parameters detected (such as pH, specific conductance, Total Dissolved Solids (TDS), TOC, sulfate, chloride, sodium and iron), including hydrograph for all monitor wells;
2. Trend analyses of any monitoring parameters consistently detected;



3. Comparisons among shallow, middle, and deep zone wells;
4. Comparisons between background water quality and the water quality in detection and compliance wells;
5. Correlations between related parameters such as total dissolved solids and specific conductance;
6. Discussion of erratic and/ or poorly correlated data;
7. An interpretation of the ground water contour maps, including an evaluation of ground water flow rates; and
8. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

CONSULTANT will perform a technical specialist review of the draft Technical Report prior to submittal to the FDEP.

#### **ASSUMPTIONS**

- This Work Order and cost proposal is based the requirements of Chapter 62-701.510(8)(b), F.A.C. and on solid waste operations Permit Nos. 0128769-023-SO (Class I) and 0128769-025-SO-024 (C&D) and the data collected from groundwater monitor wells, and surface water monitor sites that were monitored during the reporting period. An amendment to this Scope of Services may be needed if there are any regulatory changes that result in additional work.
- This Work Order does not include meetings with the Florida Department of Environmental Protection.

#### **DATA OR ASSISTANCE TO BE PROVIDED BY COUNTY**

- Prompt review of draft Technical Report

#### **PROJECT SCHEDULE**

The following project schedule has been developed based on receiving authorization on before May 22, 2018.

- Draft Technical Report Submittal - July 15, 2018
- Final Technical Report Submittal - July 31, 2018

#### **PAYMENT AND COMPENSATION**

Compensation for the Scope of Services described herein shall be made on the basis of a lump sum fee. The lump sum fee for this Work Order is \$31,660 as shown in Exhibits B. CONSULTANT will invoice the COUNTY on a monthly basis based on the percentage of work complete.

**EXHIBIT B**

**PROJECT BUDGET**

**INDIAN RIVER COUNTY SOLID WASTE DISPOSAL DISTRICT  
ENGINEERING SERVICES FOR  
2018 WATER QUALITY TECHNICAL REPORT**

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PROJECT: 2018 Water Quality Technical Report  
DESCRIPTION: Task 1.0 – Water Quality Technical Report  
CONTRACT  
REFERENCE: Agreement between the Indian River County Board of County Commissioners and CDM Smith Inc.

<u>Labor Category</u>	<u>Hours</u>	<u>Rate</u>	<u>Total</u>
Officer	4	\$230	\$920
Associate	12	\$215	\$2,580
Principal	8	\$210	\$1,680
Senior Professional	32	\$175	\$5,600
Professional II	50	\$140	\$7,000
Senior Support Services	8	\$130	\$1,040
Staff Support Services	12	\$95	\$1,140
Document Control Specialist	<u>20</u>	\$90	<u>\$1,800</u>
Total Hours	146		
Total Salary Cost			\$21,760
Outside Professionals (Beeson Consulting)			\$8,000
Other Direct Costs			<u>\$1,900</u>
TOTAL LUMP SUM FEE			<u>\$31,660</u>

For the basic services under this Agreement, COUNTY agrees to pay the Consultant a lump sum fee \$31,660. CONSULTANT will submit monthly invoices based on the percent complete for the work performed.