

Received by SWDD



621 N.W.53rd Street, Suite 265
Boca Raton, Florida 33487
Tel: 561 571-3800
Fax: 561 241-7084

DEC 27 2018

Indian River County
Landfill

Please Remit To:
CDM Smith Inc.
PO Box 100902
Atlanta GA 30384-0902

INDIAN RIVER COUNTY FLORIDA
HIMANSHU H. MEHTA
1325 74th AVENUE S.W.

VERO BEACH FL 32968

Account Number: 000200418081
Wire Routing: 011000138
Invoice Number: 90063059
Invoice Date: 12/21/2018
Project Number: 225926

Amount Due: \$8,241.30

PLEASE INCLUDE INVOICE NUMBER ON ALL CORRESPONDENCE

Services from November 25, 2018 to December 21, 2018

In accordance with the Continuing Contract Agreement for Professional Services, dated December 6, 2011, and Extensions and Amendments of Continuing Contract Agreement for Professional Services, dated November 4, 2014 and October 24, 2017 and CNNA2014 Work Order No. 13, dated January 16 2018, between Indian River County and CDM Smith Inc., we are rendering the following invoice for Professional Engineering Services as described below:

RE: PERMIT COMPLIANCE ASSISTANCE CALENDAR YEAR 2018

Description	Amount
Contract Amount	\$150,990.00
Lumpsum Amount	\$150,990.00
Percent Complete	100.00%
Billed ITD	\$150,990.00
Less Previously Billed	\$142,748.70
Total	\$8,241.30
Amount Due	\$8,241.30



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RE: PERMIT COMPLIANCE ASSISTANCE CALENDAR YEAR 2018

PM-TASK 1 - PROJECT MANAGEMENT/QUALITY

Description	Amount
Contract Amount	\$23,540.00
Lumpsum Amount	\$23,540.00
Percent Complete	100.00%
Billed ITD	\$23,540.00
Less Previously Billed	\$19,538.20
Total	\$4,001.80
Amount Due	\$4,001.80



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RE: PERMIT COMPLIANCE ASSISTANCE CALENDAR YEAR 2018

WQSEMIANNUAL-TASK 2 - WATER QUALITY SEMI-ANNUAL REPORTING

Description	Amount
Contract Amount	\$44,740.00
Lumpsum Amount	\$44,740.00
Percent Complete	100.00%
Billed ITD	\$44,740.00
Less Previously Billed	\$44,740.00
Total	\$0.00
Amount Due	\$0.00



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RE: PERMIT COMPLIANCE ASSISTANCE CALENDAR YEAR 2018

TITLE V-TASK 3 - TITLE V REPORTING

Description	Amount
Contract Amount	\$24,760.00
Lumpsum Amount	\$24,760.00
Percent Complete	100.00%
Billed ITD	\$24,760.00
Less Previously Billed	\$24,760.00
Total	\$0.00
Amount Due	\$0.00



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RE: PERMIT COMPLIANCE ASSISTANCE CALENDAR YEAR 2018

EVAL-TASK 4 - EVALUATION MONITOR

Description	Amount
Contract Amount	\$26,840.00
Lumpsum Amount	\$26,840.00
Percent Complete	100.00%
Billed ITD	\$26,840.00
Less Previously Billed	\$24,156.00
Total	\$2,684.00
Amount Due	\$2,684.00



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RE: PERMIT COMPLIANCE ASSISTANCE CALENDAR YEAR 2018

GTS-TASK 5 - GENERAL TECHNICAL ASSISTANCE

Description	Amount
Contract Amount	\$31,110.00
Lumpsum Amount	\$31,110.00
Percent Complete	100.00%
Billed ITD	\$31,110.00
Less Previously Billed	\$29,554.50
Total	\$1,555.50
Amount Due	\$1,555.50



1701 Highway A-1-A, Suite 301
Vero Beach, Florida 32963
tel: 772-231-4301
fax: 772-231-4332

January 11, 2019

VIA EMAIL

Mr. Himanshu H. Mehta, P.E.
Managing Director
Indian River County
Solid Waste Disposal District
1325 74th Avenue SW
Vero Beach, Florida 32968

Subject: Indian River County Solid Waste Disposal District
2018 Annual Permit Compliance and Monitoring
Final Invoice

Dear Mr. Mehta:

Transmitted herewith is a project completion report for the above referenced project. This work was completed in accordance with the Continuing Contract Agreement for Professional Services between Indian River County (IRC) Solid Waste Disposal District (SWDD) and CDM Smith Inc. (CDM Smith), dated December 6, 2011 and extended on November 4, 2014, under Work Order No. CCNA2014-WO No. 13 dated January 16, 2018. This project completion report is to serve as additional information to the final invoice (Invoice No. 90063059).

IRC SWDD is required to perform environmental compliance monitoring and reporting for water and air quality in accordance with the IRC Landfill's operating permits. During calendar year 2018, IRC SWDD was required to submit semi-annual reports of groundwater and surface water quality at the IRC Landfill to the Florida Department of Environmental Protection (FDEP). This was done in accordance with Chapter 62-701.510, Florida Administrative Code (F.A.C.) and the Water Quality Monitoring Plan (WQMP) included as Appendix 3 of Permit Nos. 0128769-022-SC and 0128769-023-SO for the Class I landfill and the WQMP included as Appendix 3 of Permit No. 0128769-025-SO-24 dated July 13, 2017 for the C&D debris disposal facility.

Results of routine semi-annual monitoring of groundwater quality at the C&D debris disposal facility in January 2017 indicated that confirmed concentrations of benzene and sodium exceeded the Primary Drinking Water Standard Maximum Contaminant Levels (MCLs) in samples collected from monitor well MW-21S. MW-21S is one of the 10 detection monitor wells that comprise the monitoring network for the C&D debris disposal facility. In accordance with FDEP rules and the permit for the facility, the IRC SWDD reported the exceedances of the MCLs to the FDEP in March



2017. In a letter dated June 22, 2017, FDEP requested that the IRC SWDD initiate evaluation monitoring in accordance with the requirements of Chapter 62-701.510(6), F.A.C. In July 2017, IRC SWDD installed one monitor well (MW-49S) and performed two quarterly sampling events (July 2017 and October 2017). Quarterly sampling continued to be performed in 2018.

During performance of this Work Order, the IRC Landfill was operating under a Title V Air Operation Permit (Permit No. 0610015-005-AV), which was issued on June 1, 2017, that contains monitoring and reporting requirements related to the landfill gas collection and control system. IRC SWDD is required to prepare and submit the following to FDEP and the U.S. Environmental Protection Agency (USEPA), Region 4:

- Annual Statement of Compliance
- Annual Operating Report
- Annual Emissions Fee
- Semi-Annual Monitoring Report
- Annual Landfill Gas Sulfur Content Test

IRC SWDD is also required to perform miscellaneous sampling and monitoring activities in compliance with the solid waste operation permits and the Multi-Sector Generic Permit (MSGP) for stormwater discharge (FLR05G035-003).

This project included providing the required permit compliance and monitoring services under the following tasks:

- Task 1.0 - Project Quality Management
- Task 2.0 - Semi-Annual Water Quality Sampling and Reporting
- Task 3.0 - Title V Permit Compliance and Reporting
- Task 4.0 - Evaluation Monitoring for the C&D Debris Disposal Facility
- Task 5.0 - General Technical and Miscellaneous Permit Compliance Assistance



TASK 1.0 – PROJECT QUALITY MANAGEMENT

Activities performed under this task consisted of those generally administrative functions required to assure that the project remained on schedule, within budget, and that the quality of the work products defined within this scope was consistent with CDM Smith's standards and IRC SWDD's expectations.

CDM Smith coordinated with IRC SWDD staff for project planning. Preparation of invoices and project administration was also performed under this task.

TASK 2.0 – SEMI-ANNUAL WATER QUALITY SAMPLING AND REPORTING

Under this task, CDM Smith assisted IRC SWDD with the semi-annual water quality sampling, monitoring, and reporting in accordance with Chapter 62-701.510, F.A.C. CDM Smith contracted with Ideal Tech Service, Inc. (ITS) to perform the groundwater and surface water sampling. The samples were analyzed by Environmental Conservation Laboratories, Inc. (ENCO) under contract to IRC SWDD.

Semi-annual sampling of the Class I and C&D debris disposal facility groundwater monitor wells was performed in January and July of 2018. The samples collected from the Class I monitoring wells during these events were analyzed for the routine monitoring parameters listed in Paragraph 7 of the WQMP and Chapter 62-701.510(7)(a), F.A.C. The samples collected from the C&D debris disposal facility monitoring wells, except for MW-21, were analyzed for the routine monitoring parameters listed in Paragraph 8 of the WQMP and Chapter 62-701.730(8)(c), F.A.C. In total, 39 wells (29 Class I and 10 C&D) were sampled in January and 26 wells (16 Class I and 10 C&D) were sampled in July. Samples from one surface water site were collected in January and July, if water was discharging from the stormwater pond. The samples, if collected, were analyzed for the parameters listed in Paragraph 13 of the WQMP and Chapter 62-701.510(7)(b), F.A.C.

The January 2018 semi-annual sampling event was conducted from January 24 to 26, 2018. For this event, groundwater samples were collected from the 14 intermediate-depth groundwater wells, 14 shallow groundwater wells, and one deep monitor well at the Class I landfill and 10 groundwater monitor wells at the C&D landfill. A surface water sample was collected from the designated surface water sampling location. Water levels were measured in 58 monitor wells. A surface water level measurement was taken at Staff Gauge No. 12.

The July 2018 event was conducted from July 25 to 26, 2018. For this event, groundwater samples were collected from the 12 shallow groundwater wells, one intermediate-depth well, and one deep monitor well at the Class I landfill and 10 groundwater monitor wells at the C&D landfill. A surface





Mr. Himanshu H. Mehta, P.E.
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water sample was collected from the designated surface water sampling location. Water levels were measured in 58 monitor wells. A surface water level measurement was taken at Staff Gauge No. 12.

CDM Smith assisted IRC SWDD in coordinating the analytical testing activities with ENCO, notified the FDEP prior to sampling, reviewed and evaluated the analytical test results, and prepared the semi-annual reports. The January 2018 Water Quality Monitoring Report was submitted to the FDEP on April 9, 2018 and the July 2018 Water Quality Monitoring Report was submitted to the FDEP on October 1, 2018.

TASK 3.0 – TITLE V PERMIT COMPLIANCE AND REPORTING

The Title V Air Operation Permit (Permit No. 0610015-005-AV) for the IRC Landfill contains monitoring and reporting requirements related to the landfill gas collection and control system. In accordance with the Title V permit, CDM Smith assisted IRC SWDD, as described below, in fulfilling all air permit requirements and conditions within the required regulatory timeframes.

Statement of Compliance

CDM Smith prepared and submitted the Statement of Compliance for the reporting period of January through December of 2017 for the IRC Landfill to the FDEP on February 28, 2018 in accordance with Chapter 62-213.440(3)(a)(2), F.A.C.

Electronic Annual Operating Report (EAOR)

CDM Smith prepared and submitted the 2017 reporting year EAOR for the IRC Landfill to the FDEP on March 29, 2018.

Semi-Annual Monitoring Report

CDM Smith prepared and submitted two semi-annual monitoring reports to demonstrate compliance with the federal requirements. The report covering July-December 2017 was submitted to FDEP on February 28, 2018. The report covering January-June 2018 was submitted to FDEP on August 29, 2018.

Annual Emissions Fee

CDM Smith prepared and submitted the 2017 reporting year Title V fee to the FDEP on March 30, 2018.





Mr. Himanshu H. Mehta, P.E.
January 11, 2019
Page 5

Annual Landfill Gas Sulfur Content Test

CDM Smith sampled the landfill gas and sent to a certified air testing laboratory to determine sulfur content in accordance with Method ASTM D5504-12. CDM Smith calculated the sulfur dioxide emissions using the laboratory results and reported it to FDEP in a letter report. The calendar year 2018 report was submitted to FDEP on January 11, 2019. The actual sulfur dioxide emissions are also reported in the EAOR.

TASK 4.0 – EVALUATION MONITORING FOR THE C&D DEBRIS DISPOSAL FACILITY

CDM Smith assisted the IRC SWDD with the quarterly sampling events for Calendar Year 2018 (January 2018, April 2018, July 2018 and October 2018) for MW-49S and MW-21S. CDM Smith subcontracted with ITS to perform the sampling. The samples collected in January, April and July were analyzed for the parameters listed in Chapter 62-701.510(7)(a), F.A.C. The samples collected in October 2018 were analyzed for the parameters listed in Chapter 62-701.510(7)(c), F.A.C. The January 2018 and July 2018 events were performed concurrently with the routine groundwater monitoring scheduled for late January and July 2018. The samples were analyzed by ENCO under contract with IRC SWDD.

The January 2018 sampling event was completed on January 26, 2018. CDM Smith prepared and submitted an Evaluation Monitoring letter report to FDEP on March 9, 2018.

The April 2018 sampling event was completed on April 19, 2018. CDM Smith prepared and submitted an Evaluation Monitoring letter report to FDEP on May 24, 2018.

The July 2018 sampling event was completed on July 25, 2018. CDM Smith prepared and submitted an Evaluation Monitoring letter report to FDEP on September 12, 2018.

The October 2018 sampling event was completed on October 23, 2018. CDM Smith prepared and submitted an Evaluation Monitoring letter report to FDEP on November 21, 2018.

TASK 5.0 – GENERAL TECHNICAL AND MISCELLANEOUS PERMIT COMPLIANCE ASSISTANCE

CDM Smith provided general technical and permit compliance assistance to IRC SWDD staff on an as needed basis. Under this task, CDM Smith performed quarterly monitoring of the landfill gas migration monitoring wells located at the IRC Landfill site boundary, as well as enclosed structures located on site, and submitted reports of the results to the FDEP. The reports were submitted to the FDEP on April 9, 2018, June 18, 2018, September 12, 2018, and December 10, 2018.

CDM Smith provided general technical assistance for the Year 2 – 2016 monitoring period of the Multi-Sector Generic Permit (MSGP) for stormwater discharge. CDM Smith sampled stormwater





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discharge and then created the Discharge Monitoring Reports (quarterly and annual) for the Year 2 - 2016 monitoring period. The DMRs were submitted electronically to the FDEP via their new EzDMR system on March 29, 2017. The FDEP reviewed the Year 2 data and sent a low concentration waiver letter to IRC SWDD on April 4, 2017 stating that additional analytical monitoring would not be required during Year 4 - 2018 monitoring period.

CDM Smith prepared the Contamination Evaluation Plan (CEP) for the C&D Debris Disposal Facility. This plan was requested by FDEP in their review memorandum dated September 18, 2017. The CEP addressed proposed additional monitoring well locations, proposed surface water sampling locations, proposed sediment sampling locations along with rationale for the proposed sampling locations, groundwater and surface water analyses required, evaluation of background water quality, and performance of in-situ permeability tests. The CEP was accepted by FDEP on November 1, 2018 and will be implemented under a separate work order in 2019.

CDM Smith subcontracted with JAEE Environmental Service, Inc. to abandon four groundwater monitoring wells (MW-45S, MW-45I, MW-46S, and MW-46I) located within the footprint of the future Segment 3 Cell 2.

CDM Smith attended the FDEP site inspection on February 7, 2018 for the Title V permit compliance. At this inspection, FDEP required an annual sulfur emissions test for 2017 even though the permit was issued in that year. CDM Smith sampled the landfill gas and sent the samples to a certified air testing laboratory to determine sulfur content in accordance with Method ASTM D5504-12. CDM Smith calculated the sulfur dioxide emissions using the laboratory results and reported it to FDEP in a letter report. The calendar year 2017 report was submitted to FDEP on March 1, 2018.

CDM Smith appreciates the opportunity to provide these services to the IRC SWDD. If you have any questions or require additional information on the above project, please contact me.

Sincerely,

Amy M. Hightower, P.E., BCEE
Project Manager
CDM Smith Inc.

AMH/jj
File: PW_PL1_6706-225926.02.01
cc: Kevin Vann, CDM Smith

