



DeKalb County
GEORGIA

Department of Purchasing and Contracting
Change Order Request Form

User Department: PW - Sanitation **From:** Tracy Hutchinson
CPA No.: 1233446 **Title:** Environmental Monitoring, GCCS, O&M Services
Effective Date: 12/8/21 **Expiration Date:** 12/31/25
Contract APPROVED Amount: \$1,568,231.00

Contractor(s)	Contract No.	Amount Spent	
Geosyntec Consultants, Inc.	1233446	\$1,300,000.00	N/A

Total Amount Spent to Date: \$1,300,000.00

User Department Recommendation: Renew Bid
Justification: PW-Sanitation would like to request for an additional \$7,872,924.00 for the remaining of the 5-year multi-year contract, until December 31, 2025.
 Geosyntec services for year 2 to 5: \$6,272,924.00 (\$1,568,231x4)
 Title V Regulations & Stormwater due to new regulations changes: \$1,600,000.00 (\$400,000x4)

Tracy A. Hutchinson, _____
 Department Director Signature *Tracy A. Hutchinson* Date

Funding: General Enterprise 3 Digit Fund Code 541 - Sanitation Enterprises
 CIP Line Item No. (if applicable): _____

For Use by Purchasing and Contracting: Approve Deny
Additional Comments:
Phyllis A. Head
 _____ 11/02/2021
 Purchasing and Contracting Signature Date

August 20, 2021

MEMORANDUM

TO:

FROM:

SUBJECT: Revised Cost Proposal for 2022 and Scope Change Summary; Environmental Monitoring and GCCS O&M Contract (Contract No. 08-901011)

1 BACKGROUND

DeKalb County (the County) contracted Geosyntec Consultants and SCS Engineers for Environmental Monitoring and Gas Collection and Control System (GCCS) Operation and Maintenance of Seminole Road MSW Landfill (Landfill) under contract number 08-901011 (the Contract) starting January 01, 2021. The contracted budget was based on the applicable regulations and available infrastructure required to perform environmental monitoring and provide GCCS O&M at the time of submitting the response to the County's Request for Proposal Number 20-500548 submission.

However changes to the landfill infrastructure, permit, and new regulations that occurred in this year have resulted in needing a revision of the scope and cost for this Contract. The main changes are as follows:

- In June 2021, new regulation 40 CFR 62 Subpart 000 was promulgated that requires additional efforts on environmental monitoring and GCCS O&M .
- The landfill is in the process of add GCCS infrastructure with the proposed GCCS expansion (project number 21-101426-ITB)
- The landfill plans to replace the existing enclosed flare with a new candlestick flare to be able to provide backup for collection and destruction of landfill gas from the impending GCCS expansion.
- Work related to reviewing changes and submission of new Notices of Intent when the current NPDES Industrial General Permit (IGP) No. GAR05000 expires in 2022.
- Additional groundwater and surfacewater monitoring under the solid waste permit based on the modification to the permit as a result of comments from Georgia Environmental Protection Division (GA EPD) on the 5-Year Solid Waste Permit Update.

The above summarized new regulations, permit requirements, and added infrastructure requires modification to the scope and the cost of the Contract for 2022 onward. This memorandum provides a description of the reasons associated with the modification of the scope and proposed cost for the contracted tasks that will be added or modified 2022 onward.

2 REASONS FOR SCOPE MODIFICATION TO THE CONTRACT

2.1 New Regulation 40 CFR 62 Subpart 000

On May 21, 2021, the US Environmental Protection Agency (EPA) published a Federal Plan under 40 CFR 62 Subpart 000, which essentially replaced the previous applicable rule to the Landfill, which was under the New Source Performance Standards (NSPS) of Subpart WWW. The new regulations became effective since June 21, 2021. The new regulations added the following monitoring requirements that require modification to the scope of current contract.

2.1.1 Surface Emission Monitoring

Beginning third quarter (Q3) of 2021, all surface penetrations must be monitoring during each surface emissions monitoring event, along with the normal serpentine pattern and perimeter of the landfill. This will be a significant change from previous procedures, which will require additional monitoring effort at the penetrations and for the tracking the compliance deadlines for the rechecks for initial readings over 500 ppm and reporting following the corrective actions.

2.1.2 Wellhead Monitoring Criteria/Corrective Actions

Similar to previous applicable rule, all NSPS monitoring points are required to monitor for oxygen, pressure and temperature; however, the new regulation has added requirements for corrective actions timeline and procedures as discussed below.

- Corrective action must still be initiated within 5 days;
- If not in compliance within 15 days, a root cause analysis must be conducted
- If not in compliance within 60 days, a corrective action analysis must be conducted along with an implementation schedule to complete within 120 days
- If more than 120 days is necessary, EPA approval is required and we must submit the root cause/corrective action analyses and implementation schedule by day 75

The above listed requirements are expected to increase considerable monitoring and reporting effort. Additional effort will also be needed during monthly on-site file review, documentation verification, and permit conditions review for all Title V permits.

2.2 GCCS Expansion

The County plans to expand the Landfill's existing GCCS by adding approximately 20 more gas extraction wells in accordance with the project number 21-101426-ITB which will result in some additional effort for monitoring the extra points (approximately 20 wells), new valves, pneumatic pumps, and other appurtenances.

2.3 Flare Yard Equipment

The flare yard currently consists of two flare systems, a candlestick flare and an Ultra-Low NOx Flare (ULNF) / Enclosed flare. Each flare system contains two blowers, a flare, and associated components. The County is planning to replace the burner component of the existing ULNF with a greater capacity (2,100 standard cubic feet per minute (scfm)) candlestick flare to destruct additional gas that may potentially generate with GCCS expansion as discussed in Section 2.2. The new replacement candlestick flare operation and maintenance, and compliance monitoring will be different the ULNF which is not currently operational.

The County has also dryers for the air compressors at the flare yard. Considering the age of these equipment, they require frequent maintenance work. The proposed cost includes their semiannual inspection, operation, and maintenance as needed.

2.4 NPDES Stormwater Permitting

The current NPDES Industrial General Permit (IGP) No. GAR05000 expires May 31, 2022. The 2022 IGP will need to be reviewed for all changes effecting the eleven DeKalb facilities including: the Landfill, 4 Collection Lots, 2 Transfer Stations, 1 Roads & Drainage facility, 2 Fleet Maintenance facilities, and the Roadhaven WWTP facility. This will require submission of revised Notices of Intent to be covered under the 2022 IGP, and revision of facility Stormwater Pollution Prevention Plans (SWPPPs) to incorporate any new aspects or requirements of the new Permit.

2.5 Additional Groundwater and Surface Water Monitoring:

As a result of GA EPD comments on the 5-Year D&O Plan Update, one additional groundwater well and one additional surface water location have been proposed. When approved, this will result in an increase in the scope and cost for sampling, laboratory analysis, and reporting for these two new locations. The increases are related to Task 11 (Surface Water Monitoring), Task 12 (January Groundwater Monitoring), and Task 13 (July Groundwater Monitoring).

The additional new groundwater well will require sampling for four events to provide background data for statistical analysis and reporting of the N=1 through N=4 sampling results.

3 PROPOSED CHANGES TO THE COST PROPOSAL

The cost proposal submitted as part of the contract in 2020 has been revised to modify the Items affected by the above summarized changes and is presented as an attachment to this memo. The revised Items are identified in bolded blue font. Additionally, due to the above changes which will result in increase of required parts, material, labor and repairs, the allocated budgets for requested under the contingency funds are also requested to be increased in 2022.



Request for Proposal (RFP) No. 20-500548 for Environmental Monitoring, GCCS Operation & Maintenance

COST PROPOSAL FOR 2022 (Revised 2021)

Contract No. 1233446 - Environmental Monitoring and Gas Collection and Control System (GCCS) Operation and Maintenance Services

ITEM NO.	ITEM DESCRIPTION	NO. OF EVENTS/ ANNUAL	COST PER EVENT	EXTENDED AMOUNT
PART I: MONITORING AND O&M SERVICES				
A. Storm Water and Erosion Control Monitoring				
1	Annual effluent limitation/benchmark monitoring and reporting for landfill.	1	\$3,238	\$3,238
2	Resampling/Quarterly storm water monitoring for constituents exceeding effluent limitations for landfill.	4	\$1,020	\$4,080
3	Quarterly inspection of the SWP3 BMPs including written reports and meeting for landfill.	4	\$2,643	\$10,572
4	Annual comprehensive inspection and EPD report for the landfill.	1	\$4,800	\$4,800
5	Quarterly SWP3 inspections including written reports for 3 transfer stations, 4 collection lots, 2 fleet maintenance shops, 1 roads & drainage, and 1 watershed management facility.	4	\$11,500	\$46,000
6	Annual comprehensive inspection and EPD reports for 3 transfer stations, and 4 collection lots, 2 fleet maintenance shops, 1 roads & drainage, and 1 watershed management facility.	1	\$13,704	\$13,704
7	Provide lab analysis and reporting for storm water monitoring at landfill, twice quarterly for fecal coliform.	8	\$1,414	\$11,312
8	Annual NPDES Training Workshop, supply workbook/ materials for approximately 100 employees.	1	\$12,824	\$12,824
9	Annual SWPPP Review and NOI/SWPPP Update for landfill, three transfer stations, four collection lots, two fleet maintenance shops, and one roads & drainage, and one watershed management facility.	1	\$60,000	\$60,000
10	Evaluation of Non-Storm water Discharges into Storm Sewer System for landfill, three transfer stations, four collections lots, two fleet maintenance shops, and one roads & drainage, and one watershed management facility.	1	\$8,008	\$8,008
Total for Storm Water and Erosion Control Monitoring				\$174,538
B. Groundwater and Surface Water Monitoring				
11	Semi-Annual surface water monitoring and reporting (Jan. & Jul.).	2	\$4,495	\$8,990
12	January Appendix I detection monitoring events & reporting (Jan.).	1	\$30,188	\$30,188
13	July Appendix I & II detection, and assessment monitoring events and reporting (Jul.).	1	\$32,523	\$32,523
14	Annual monitoring and natural attenuation plan sampling, evaluation, and reporting (Jul.).	1	\$3,933	\$3,933
Total for Groundwater and Surface Water Monitoring				\$75,634
15	Semi-Annual leachate monitoring and reporting			
15a	Bi Monthly Leachate Sampling – Tank 1 & 2	24	\$1,613	\$38,712
15b	Monthly Self-Monitoring Report	12	\$1,666	\$19,992
15c	Quarterly Leachate Sampling – Tank 1 & 2	4	\$1,304	\$5,216
Total for Semi-Annual leachate monitoring and reporting				\$63,920
Methane Monitoring				
16	Quarterly methane monitoring & reporting (Jan., Apr., Jul., Oct.)	4	\$2,042	\$8,168
17	Monitoring surface emissions monitoring & reporting (Jan., Apr., Jul., Oct.).	4	\$6,655	\$26,620
18	Confirmation of surface emission corrective action monitoring & reporting.	4	\$2,916	\$11,664
Total for Methane monitoring				\$46,452

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ITEM NO.	ITEM DESCRIPTION	NO. OF EVENTS/ ANNUAL	COST PER EVENT	EXTENDED AMOUNT
C. Mining and Borrow Area Monitoring				
19	Quarterly monitoring inspection and letter report for four borrow areas (Ward Lake, Linecrest, Johnson Property, and South River Sand Pit)	4	\$5,608	\$22,432
20	Annual mining status report to EPD for each of the four borrow areas (Ward Lake, Linecrest, Johnson Property, and South River Sand Pit).	1	\$3,579	\$3,579
	Total for Mining and Borrow Area monitoring			\$26,011
D. GCCS Operation and Maintenance				
21	Monthly GCCS and PCS monitoring, adjustment, and reporting.	12	\$13,984	\$167,808
22	Monitor, evaluate, and report liquid level in GCCS (Anticipate 2 events per year).	2	\$18,742	\$37,484
23	Blower maintenance lubrication letter report for Title V record (Anticipate 4 events per year).	4	\$1,070	\$4,280
24	Flares maintenance/outage events including letter report for Title V record. (Anticipate 5 events per month for each flare. There are two flares in total).	120	\$683	\$81,960
25	Establish, update, and submit weekly SSMP report for GCCS flares, Green Energy Facility, and RFF.	52	\$762	\$39,624
26	Perform daily monitoring using remote monitoring access for Title V compliance and maintenance (flare station, pump stations, Green Energy Facility, and RFF)	365	\$172	\$62,780
27	Perform monthly pump maintenance on 25+/- pumps.	12	\$8,625	\$103,500
	Total for GCCS operation and maintenance			\$497,436
E. Title V Reporting, Control Devices and Operations				
28	28) Monthly Candlestick Flare Operations and Maintenance.	12	\$1,341	\$16,092
29	29) Monthly Ultra Low Nox Flare Operations and Maintenance.	12	\$1,341	\$16,092
30	30) Semi-Annual Title V report. Prepare and submit mid-period draft (3-month report) and final (6-month report).	4	\$3,519	\$14,076
31	31) Annual Title V certification. Prepare and submit mid-period draft (6-month report), and final (12-month report).	2	\$2,328	\$4,656
32	32) Prepare annual emission inventory and prepare annual emission statement.	1	\$3,519	\$3,519
33	33) Prepare and submit annual emission fee form to County.	1	\$1,647	\$1,647
34	34) Annual review and annual update of SSMP for GCCS flare, Green Energy Facility, and LFG to RNG Facility.	1	\$3,463	\$3,463
35	35) Monthly on-site file review, documentation verification, and permit conditions review for all Title V permits.	12	\$1,365	\$16,380
	Total for Title V reporting, control devices and operations			\$75,925
F. Greenhouse Gas Monitoring				
36	36) GHG Monitoring and Monthly Database Updates.	12	\$944	\$11,328
37	37) Annual GHG Monitoring Report.	1	\$5,164	\$5,164
38	38) Annual On-Site Compliance Review of GHG Monitoring records and update to GHG Monitoring Plan.	1	\$1,307	\$1,307
	Total for greenhouse gas monitoring			\$17,799



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ITEM NO.	ITEM DESCRIPTION	NO. OF EVENTS/ ANNUAL	COST PER EVENT	EXTENDED AMOUNT
G. Preventative Maintenance Activities				
39	39) Semi-Annual preventive inspections and documentation for ground water and methane wells.	2	\$16,934	\$33,868
40	40) Quarterly preventive inspections, and recommend corrective action/measures (if necessary) for leachate sumps, condensate knock-outs, and pump stations. Note: Contractor shall provide Inspection Form and shall submit to County for Approval.	6	\$1,439	\$8,634
41	41) Quarterly preventive inspections, and recommend corrective action/measures (if necessary) for air compressor and flares back-up/emergency generator. Note: Contractor shall provide Inspection Form and shall submit to County for Approval.	6	\$2,159	\$12,954
Total for preventative maintenance activities				\$55,456
H. Administrative				
42	42) Monthly engineering meeting at CNG facility.	12	\$1,333	\$15,996
Total for administrative				\$15,996
LUMP SUM SUB-TOTAL (Items 1-42)				\$1,049,167
I. Contingency Fund				
43a	Repair and Replacement Parts	1	\$100,000	\$100,000
43b	Fund allowance for annual GCCS repair/replacement parts and labor to maintain gas well pumps, tubing, counters, and leachate knock out, ground water and methane monitoring wells.	1	\$150,000	\$150,000
43c	Contractor's price for well raising per event (Quantity of events TBD... All wells have pumps installed... Quote should refer to 10 ft. extensions) Assume 10 gas wells raised per month at 10 ft each	12	\$15,884	\$190,608
LUMP SUM TOTAL (Items 1-43)				\$1,489,775
PART II: SUPPLEMENTAL PRICING FOR SAMPLING				
MONITORING AND ON-CALL ACTIVITIES (As Needed Basis) - TOTAL (Items 44-62)				\$24,400
PART III: GAS COLLECTION AND CONTRL SYSTEM (GCCS) UPGRADE (Additive Alternate Item Only)				
63	GCCS Upgrade (LUMP SUM AMOUNT) (Maximum budgeted amount = \$400,000.00)			\$400,000
TOTAL (Items 1-63)				\$1,914,175