AGENDA ITEM or FINAL CONTRACT REVIEW SUBMITTAL FORM

Agenda Item: Consultant Services Agreement; Souder, Miller and

Action Requested: Board of County Commissioners' Signature

Parties to the Agreement: BoCC and Souder Miller and Associates

Term Begins: **Term Ends:** **Grant Contract #:**

Summary:

Contract for engineering consulting services at Gunnison County Landfill with Souder Miller and Associates

Fiscal Impact: Not to Exceed $72,781

Submitted by: Laura Seymour for David Baumgarten **Submitter's Email Address:** lseymour@gunnisoncounty.org

Finance Review: (●) Required ( ) Not Required

Comments:
No concerns, amount sufficient to cover cost included in 2016 adopted budget for Landfill construction project. ln

Reviewed by: GUNCOUNTY1\lNienhueser Discharge Date: 6/29/2016

County Attorney Review: (●) Required ( ) Not Required

Comments:
ok db 6/28/16

Reveiwed by: Discharge Date: 6/28/2016 Certificate of Insurance Required Yes (●) No ( )

County Manager Review:

Comments:

Reveiwed by: GUNCOUNTY1\mbirnie Discharge Date: 6/29/2016

(●) Consent Agenda ( ) Regular Agenda ( ) Worksession Time Allotted: 0

Agenda Date: 7/5/2016

Revised April 2015

CONSULTING SERVICES AGREEMENT

THIS CONTRACTOR AGREEMENT ("Agreement") made effective the ___ day of _____, 2016, by and between the Board of County Commissioners of the County of Gunnison, Colorado, whose address is 200 East Virginia, Gunnison, CO 81230 (herein "Gunnison County") and Souder, Miller and Associates whose address is 800 W. 14th Ave., Lakewood, CO 80214 (herein "Contractor").

RECITALS

The Contractor desires to provide professional services regarding engineering consultant services at the Gunnison County Landfill ("Services").

Gunnison County desires to engage Contractor to provide Services according to this Agreement.

OR

as identified in the Scope of Work attached hereto and incorporated herein by reference as Appendix "A ("Services").

Gunnison County desires to engage Contractor to provide Services according to this Agreement.

AGREEMENT

NOW THEREFORE, in consideration of the Recitals and the mutual covenants and obligations hereinafter set forth, the parties agree as follows:

1. SERVICES.

Contractor shall furnish all materials, labor, supervision, supplies and equipment to commence, diligently pursue, and complete the Services as more specifically set forth on Appendix "A". All Services shall be performed in a timely manner and in accordance with generally accepted standards for Contractor's profession and all applicable federal, state and local laws and regulations affecting the Services or the subject matter thereof. Contractor acknowledges that this is a non-exclusive Agreement, and Gunnison County may contract with additional or other providers able to furnish the same or similar services as it deems appropriate to do so.

2. TERM.

The term of this Agreement shall commence on the date first set forth above and shall terminate on December 31, 2017, unless sooner terminated or replaced as provided herein.

3. STRATEGIC RESULT.

Execution of this Agreement will assist the County with its strategic goal of providing solid waste disposal service to the public, as outlined in the Gunnison County Strategic Plan.

4. COMPENSATION, BONUS AND EXPENSES.

In consideration and exchange for Contractor's performance of the Services, during the Term, Gunnison County shall pay Contractor fees as more specifically not to exceed Seventy-two thousand, seven-hundred eighty-one and No/100 U. S. Dollars ($72,781.00). Payment shall be made by Gunnison County to Contractor within 45 days of receipt of an invoice.

Gunnison County shall compensate Contractor for all charges, expenses, overhead, payroll costs, employee benefits, insurance subsistence, and profits, except as specifically set forth herein.

This Agreement is subject to Gunnison County making an annual budget appropriation in an amount sufficient to fund this Agreement. If Gunnison County fails or refuses to make such an appropriation, Gunnison County reserves the right to terminate this Agreement without penalty to Contractor pursuant to **paragraph 14** of this Agreement.

5. INSURANCE.

Contractor agrees that at all times during the Term of this Agreement that Contractor shall carry and maintain, in full force and effect and at its sole cost and expense, the following insurance policies. Within thirty (30) days of the execution of this Agreement, Contractor will provide insurance certificates to Gunnison County, listing Gunnison County as an additional insured, for the coverage's required herein which shall state that such policies shall not be materially changed or cancelled without thirty (30) days prior notice to Gunnison County.

a. Worker's Compensation Insurance in accordance with Colorado and Federal law which adequately protects all labor employed by Contractor during the term of this Agreement.

b. Comprehensive General Liability Insurance or the equivalent for any injury to one person in any single occurrence, Three Hundred Fifty Thousand and No/100 U.S. Dollars ($350,000.00); and for an injury to two or more persons in any single occurrence, the sum of Nine Hundred Ninety Thousand and No/100 U.S. Dollars ($990,000.00).

c. Comprehensive automobile liability insurance on all vehicles used in the Services, in an amount no less than $350,000 for any injury to one person in any single occurrence and in an amount no less than $990,000 for any injury to two or more persons in any single occurrence.

6. INDEPENDENT CONTRACTOR.

In carrying out its obligations and activities under this Agreement, Contractor is acting as an independent contractor and not as an agent, partner, joint venture or employee of Gunnison County. Contractor does not have any authority to bind Gunnison County in any manner whatsoever.

Contractor acknowledges and agrees that Contractor is not entitled to: (i) unemployment insurance benefits; or (ii) Workers Compensation coverage, from Gunnison County. Further, Contractor is obligated to pay federal and state income tax on any moneys paid it related to the services.

7. INDEMNIFICATION.

Contractor agrees to indemnify, defend and hold harmless Gunnison County, its Commissioners, agents and employees of and from any and all liability, claims, liens, demands, actions and causes of action whatsoever (including reasonable attorney's and expert's fees and costs) arising out of or related to any loss, cost, damage or injury, including death, of any person or damage to property of any kind to the proportionate extent caused by the misconduct or negligent acts, errors or omissions of Contractor or its employees, subcontractors or agents in connection with this Agreement.

This provision shall survive any termination or expiration of this Agreement with respect to any liability, injury or damage occurring prior to such termination.

8. SOLE SOURCE CONTRACTS. (ONLY USE ON CONTRACTS $100,000 or more.)

If the Contractor has entered into a sole source contract or contracts with the State of Colorado or any of its political subdivisions as defined in Article XXVIII of the Colorado Constitution which including this contract in the aggregate on an annual basis are equal to or exceed the amount of $100,000, then the following provisions apply:

a. Because of a presumption of impropriety between contributions to any campaign and sole source government contracts, Contractor, on behalf of itself , any person who controls ten percent or more of the shares of or interest in the Contractor, and the Contractor's officers, directors and trustees (collectively, the "Contract Holder") shall contractually agree, for the duration of the contract and for two years thereafter, to cease making, causing to be made, or inducing by any means, a contribution, directly or indirectly, on behalf of the Contract Holder or on behalf of

his or her immediate family member and for the benefit of any political party or for the benefit of any candidate for any elected office of the state or any of its political subdivisions.

b. The parties further agree that if a Contract Holder makes or causes to be made any contribution intended to promote or influence the result of an election on a ballot issue, the Contract Holder shall not be qualified to enter into a sole source government contract relating to that particular ballot issue.

c. The parties agree that if a Contract Holder intentionally violates sections 15 or 17(2) of Article XXVIII of the Colorado Constitution, as contractual damages that Contract Holder shall be ineligible to hold any sole source government contract, or public employment with the state or any of its political subdivisions, for three years.

d. These provisions shall not apply to the extent they have been enjoined or invalidated by a court of competent jurisdiction.

9. DISCRIMINATION.

The Contractor agrees not to discriminate against any person or class of persons by reason of age, race, color, sex, creed, religion, disability, national origin, sexual orientation or political affiliation in providing any services or in the use of any facilities provided for the public in any manner prohibited by Part 21 of the Regulations of the Office of the Secretary of Transportation. Contractor shall further comply with the letter and spirit of the Colorado Anti-Discrimination Act of 1957, as amended, and any other laws and regulations respecting discrimination in unfair employment practices. Additionally, Contractor shall comply with such enforcement procedures as any governmental authority might demand that Gunnison County take for the purpose of complying with any such laws and regulations.

10. IMMIGRATION COMPLIANCE CERTIFICATION.

a. Contractor certifies that Contractor does not and will not knowingly contract with or employ illegal aliens to work under this Agreement.

b. Contractor certifies that Contractor has required its subcontractors to certify that they do not knowingly contract with or employ illegal aliens to work under this Agreement.

c. Contractor certifies that it has attempted to verify the eligibility of its employees and subcontractors to work through the Basic Pilot Employment Verification Program administered by the Social Security Administration and Department of Homeland Security.

d. Contractor agrees to comply with all reasonable requests made in the course of an investigation under C.R.S. 8-17.5-102 by the Colorado Department of Labor and Employment.

e. Contractor agrees to comply with the provisions of C.R.S. 8-17.5-101 et seq.

11. ADA COMPLIANCE.

The Contractor assures Gunnison County that at all times during the performance of this Agreement no qualified individual with a disability shall, by reason of such disability, be exclude from participation in, or denied benefits of the service, programs, or activities performed by the Contractor, or be subjected to any discrimination by the Contractor upon which assurance Gunnison County relies.

12. MISCELLANEOUS.

a. SEVERABILITY. If any clause or provision of this Agreement shall be held to be invalid in whole or in part, then the remaining clauses and provisions, or portions thereof, shall nevertheless be and remain in full force and effect.

b. AMENDMENT. No amendment, alteration, modification of or addition to this Agreement shall be valid or binding unless expressed in writing and signed by the parties to be bound thereby.

c. NO WAIVER OF GOVERNMENTAL IMMUNITY. Nothing in this Agreement is, or shall be construed to be, a waiver, in whole or part, by Gunnison County of governmental immunity provided by the Colorado Governmental Immunity Act or otherwise.

13. DELEGATION AND ASSIGNMENT.

This is a personal services contract with Contractor and, therefore, Contractor shall not delegate or assign its duties under this Agreement without the prior written consent of Gunnison County which consent Gunnison County may withhold in its discretion. Subject to the foregoing, the terms, covenants and conditions of this Agreement shall be binding on the successors and assigns of either party.

14. TERMINATION.

Either party shall have the right to terminate this Agreement at any time, with or without cause, upon thirty (30) days prior written notice to the other. Upon termination, Contractor shall be entitled to compensation for Services performed prior to the date of termination, per the compensation terms outlined in Exhibit A.

15. NOTICES.

Any notice, demand or communication which either party may desire or be required to give to the other party shall be in writing and shall be deemed sufficiently given or rendered if delivered personally or sent by certified first class US mail, postage prepaid, addressed as follows:

Gunnison County:	County Manager Gunnison County 200 E. Virginia Gunnison, Colorado 81230 Phone: 970-641-0248
With a copy to:	Board of County Commissioners of the County of Gunnison, Colorado 200 E. Virginia Gunnison, Colorado 81230
Contractor:	Name Address Gunnison, CO 81230

Either party has the right to designate in writing, served as provided above, a different address to which any notice, demand or communication is to be mailed.

16. GOVERNING LAW.

This Agreement shall be governed by and interpreted in accordance with the laws of the State of Colorado. Exclusive jurisdiction and venue for any legal proceedings related to this Agreement shall be in the state District Court governing Gunnison, Colorado.

17. COUNTERPARTS: FACSIMILE TRANSMISSION.

This Agreement may be executed by facsimile and/or in any number of counterparts, any or all of which my contain the signatures of less than all the parties, and all of which shall be construed together as but a single instrument and shall be binding on the parties as though originally executed on one originally executed document. All facsimile counterparts shall be promptly followed with delivery of original executed counterparts.

18. ENTIRE AGREEMENT.

This Agreement contains the entire agreement between the parties hereto with respect to the subject matter hereof, and supersedes any and all prior agreements, proposals, negotiations and representations pertaining to the obligations to be performed hereunder.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date above written.

BOARD OF COUNTY COMMISSIONERS
OF THE COUNTY OF GUNNISON, COLORADO

By: _____
Paula Swenson, Chairperson

ATTEST:

_____
Deputy Clerk

CONTRACTOR

By: _____

APPENDIX “A”

SCOPE OF SERVICES

Contractor shall perform and provide the following services:

EXHIBIT A

- Proposal dated June 17, 2016 (6 pages)
- Cost Spreadsheet (1 page)

Souder, Miller & Associates ♦ 8000 W. 14th Avenue ♦ Lakewood, CO 80214
(303) 239-9011 ♦ fax (303) 239-0745

June 17, 2016

Gunnison County
ATTN: Mr. Sean McCormick
195 Basin Park Drive
Gunnison, CO 81230

RE: Cost Estimate for 2016 Engineering Consultant Services
Gunnison County Landfill, Gunnison County, Colorado

Dear Sean,

Souder, Miller & Associates (SMA) is pleased to present you with estimated fees for providing 2016 Engineering Consultant Services at the at the Gunnison County Landfill in Gunnison County, CO.

Proposed services and estimated costs include:

- Construction Quality Assurance and Quality Control (CQAQC) services during construction of Phase 2, Modules 1 and 2 - $64,816
- Annual groundwater statistical report preparation - $5,975
- Air Compliance services - $1,990
- ***Total Cost Estimate for this Contract - $72,781***

These cost estimates are based on a time and expenses (T&E) basis, and will not be exceeded without prior approval from Gunnison County. Detailed scopes of work are presented below.

Construction Quality Assurance and Quality Control Services

SMA has assumed that the duration of construction will be approximately two months based on our experience working on projects of similar size and scope. During that time, SMA will provide construction documentation services as required by CDPHE and as described in the Construction Quality Assurance/Quality Control Plan (CQAQCP). Based on the assumptions and estimated construction schedule presented herein, SMA's cost estimate for CQAQC services is $64,816, based on a time and materials basis.

Field CQAQC Services

SMA personnel will be on-site to perform CQAQC services during major construction activities including, but not limited to, foundation layer placement and compaction, geosynthetics installation, leachate drainage layer and operations layer placement, and leachate sump and holding pond construction.

Construction Item	***Description/Assumptions***	***Estimated Schedule***
Foundation Layer Construction	▪ 9,000 cy of foundation layer soil to be placed, compacted, and tested. ▪ Assume ~800 to 1,000 cy/day: **10 days.** ▪ 2 weeks use of a nuclear density meter. ▪ Soils Testing: Proctors – 1 per 8,000 cy, therefore 2 Proctors. 1 Atterberg Limits and grain size/hydrometer per Proctor, therefore 2 tests.	10 days
Geosynthetics	▪ 370k sf of GCL and 270k sf of geocomposite in Modules 1 & 2. ▪ Assume **7 days** of installation and field documentation. No field or laboratory testing required.	7 days
Drainage Layer and Operations Layer	▪ 3,000 cy of granular drainage layer to be placed. • Assume ~1,000 cy per day: **3 days**. ▪ 13,500 cy of operations layer to be placed. • Assume ~1,500 cy/day: **10 days**. • Soils testing - 2 grain size and 1 hydraulic conductivity test.	13 days
Leachate Sump and Holding Pond	▪ 20k sf (including leachate collection sump); no conformance testing; 3 destructive seam samples (2 in pond, 1 in sump). Assume **5 days** for construction.	5 days
	Total Estimated Construction Schedule:	***35 days***

The CQAQC services proposed by SMA include:

- Observation of the subgrade excavation prior to placement of the 0.5-foot thick compacted foundation layer. Observation of proof-rolling of the subgrade to document a stable subgrade for foundation layer and liner construction.
- Observation of activities relating to the installation of the geosynthetic clay liner (GCL) to document that the work is performed in accordance with the approved design, specifications, drawings, and CQAQC Plan.
- Observation of activities relating to the placement of the granular drainage layer and geocomposite drainage layer to document that the work is performed in accordance with the approved design, specifications, drawings, and CQAQC Plan.
- Observation of activities relating to the placement of the operations layer to document that the work is performed in accordance with the approved design, specifications, drawings, and CQAQC Plan.
- Sampling of various soil materials for testing in accordance with the CQAQC Plan. SMA will subcontract a qualified soils laboratory for sample testing.
- Review of construction submittals for conformance with the approved design, specifications, drawings, and CQAQC Plan.
- Participation in construction meetings by the on-site field engineer.

SMA personnel will be on-site full time during construction of the foundation layer, liner, leachate collection system, and operations layer. As summarized in the above table, SMA estimates this time period to be approximately 7 weeks. SMA assumes that the County's surveyor will provide construction surveying along with as-built survey information.

An SMA Senior Engineer will be available for consultation/project management during Modules 1 and 2 construction for an estimated 5 hours per week throughout the estimated 7-week construction schedule. Additionally, the Senior Engineer will make 5 site visits: 2 for the pre-construction and post-construction meetings, and 3 throughout construction.

Construction Certification Report Preparation

Following completion of construction activities, SMA will prepare a Construction Certification Report for submittal to and approval by the Colorado Department of Public Health and Environment (CDPHE). SMA will be responsible for responding to any CDPHE review comments.

All reports submitted to CDPHE will be done so in accordance to CDPHE submittal policy. Electronically submitted oversized documents (larger than 11 inches by 17 inches) will be accompanied with a paper copy. Submittal to CDPHE will include one hard copy and one electronic version. Gunnison County will be copied on all correspondence with CDPHE.

Estimated CQAQC Fees

The estimated fees for the tasks described in this proposal are presented in the attached spreadsheet. The assumptions regarding the estimated construction schedule are based on SMA's experience on projects of similar size and scope. Conditions encountered during construction may result in construction time differing from the estimate. Depending on the selected Contractor's experience in landfill construction, the assumed 7-week construction schedule may change. SMA's field time for CQAQC services are dependent on the Contractor's schedule and are thus subject to change. Once the construction contract has been awarded, SMA can review the Contractor's proposed schedule and revise this cost estimate, if appropriate.

The sampling and testing frequencies included in this cost estimate are based on SMA's CQAQC Plan and CDPHE's solid waste guidance *Concerning Solid Waste Site and Facility Engineering Design Quality Assurance/Quality Control Plans for Disposal Cell Subgrade, Liner, Leachate Collection System (including Sumps) and Protective Layer Components* dated January 14, 2010.

SMA will not exceed the estimated cost without justification and prior approval from Gunnison County. All work will be charged based on a time and materials basis with the exception the Construction Certification Report, which is proposed on a lump sum basis. A summary of proposed costs follows:

- Item 1.1 – Project Meetings $ 5,980
- Item 1.2 – Fieldwork/Construction QAQC $ 37,786
- Item 1.3 – Soils Laboratory $ 1,500
- Item 1.4 – Geosynthetics Laboratory $ 150
- Item 1.5 – Project Management $ 4,900
- Item 1.6 – Construction Certification Report (Lump Sum) $ 14,500

Total Estimated Fee: $ 64,816

Annual Groundwater Statistical Report Preparation

Per the approved groundwater monitoring plan for the site (Douglass & White, 2002), groundwater monitoring of wells GLMW-1, GLMW-2, GLMW-4, GLMW-5, and GLMW-7 will be sampled by Gunnison County personnel on a semi-annual basis in April and October.

Groundwater monitoring statistics notification letters will be submitted following each monitoring event. In accordance with correspondence with CDPHE in April 2014, Groundwater Statistics Reports are submitted on an annual basis. An annual groundwater monitoring report will be prepared following the fall monitoring event presenting an evaluation of the sampling and analytical data.

The notification letters shall include, but not be limited to:

- Notification of statistically significant increases (SSIs) in well and constituent pairs.
- Notification of volatile organic compound (VOC) detections.
- Notification of Colorado Basic Standard of Groundwater exceedances.

The annual groundwater statistics report shall include, but not be limited to:

- Statistical analysis of groundwater monitoring constituents, as applicable
- An evaluation of the groundwater levels
- A discussion on deviations from standard professional practice, if any
- Significant events that may have impacted sampling results due to site conditions, sampling, or analytical efforts
- Recommendations and the estimated schedule for the next sampling event schedule
- Copies of the laboratory analytical reports submitted in their entirety
- Site maps and appropriate figures including a plan view illustration of the potentiometric surface relative to the groundwater monitoring network
- Sample chain of custody documentation
- Copies of field sheets.

The reports shall be submitted to Gunnison County and CDPHE within sixty (60) days of SMA's receipt of the applicable laboratory analytical reports. A statistical analysis will be employed consistent with CDPHE regulations, as appropriate, for the ongoing analysis of the geochemical data. Samples will be analyzed in accordance with one or more of the methods identified in Part 1, Appendix B, Section B3(G) of the Regulations to determine if the changes are statistically significant.

These services will be performed on a time and materials basis and SMA will invoice only for actual hours and expenses for completing the tasks.

Air Compliance Services

Solid waste landfills release air pollutants that are regulated by the CDPHE Air Pollution Control Division (APCD). Air quality regulations that apply to Gunnison County Landfill include Colorado Air Quality Control Commission's (CAQCC's) Regulations (refer to Regulation No. 2, 3, and 7) and New Source Performance Standards (NSPS) located in 40 CFR Part 60 Subpart WWW.

Gunnison County Landfill is subject to various reporting requirements. These reporting requirements include the design capacity report, APEN, and site specific density. The annual VOC report and the greenhouse gas mandatory rule assessment are not submitted to a regulatory agency. They are completed annually and filed on-site. These documents are usually requested during on-site inspections. A detailed explanation of each of these reports is included in this section. The compliance schedule which shows the due dates for these submittals is found in the table below.

Compliance Schedule

Description	*Date Submitted*	*Interval*	*Next Submittal Date*	*Notes*	*Included in this Contract*
Design Capacity Report	October 2014	NA	Within 90 days of design capacity increase.	Phase 2 was included in the October 2014 submittal.	No
MSW Landfill APEN	October 2014	59 months	September, 2019		No
Annual VOC Emissions Calculations	February 2016	Annual	April 1, 2016	Requested during on-site inspections	Yes
GHG Mandatory Reporting Rule	October 2015	Annual	November 1, 2016	Requested during on-site inspections	Yes
Site Specific Density Report	October 2015	Annual	October 31, 2016		Yes

Each MSW landfill must submit an initial design capacity report to APCD. The design capacity report will include calculations used to determine the capacity, a map or plot plan of the facility, and the location of the landfill. If the design capacity is increased, then an amended Design Capacity Report must be submitted to the APCD within 90 days of the change. A revised design capacity will be submitted within 90 days of the approval of the EDOP from the Solid Waste Division at CDPHE.

To report air emissions per AQCC Regulation No. 3, Part A, an Air Pollution Emission Notice (APEN) form is the means of recording and communicating general information. General information on the APEN form includes the landfill waste acceptance rate, location, size and duration of the landfill or expected closure date. Also included in the APEN is detailed information on design capacity and fugitive emissions. APENs are valid for five years and each APEN must be renewed at least 30 days before it expires. Additionally, revised APENs must be submitted to the Division when certain changes occur, including, but not limited to name change, change in ownership, increase in waste acceptance limit, a significant change in emissions, or a modification to the design capacity.

Gunnison County Landfill possesses Construction Permit No. 83GU236F. A draft permit was issued by the APCD in May 2016. SMA reviewed the draft permit and submitted requested revisions, which were approved by the APCD. Gunnison County will need to submit self-certification upon receipt of the initial approval construction permit. Although there is no more anticipated work in regard to the construction permit, this is subject to change based on potential changes in landfill operations. This scope assumes that Gunnison County will complete the self-certification. An APEN application was submitted for a construction permit in October 2014. It is anticipated the next APEN will need to be submitted in September 2019.

Annual calculations of VOC emissions are frequently requested during on-site inspections to assure compliance with the facility permit and the most recent APEN submission. This calculation

is typically completed in April of each year and made available to APCD upon request. The VOC emissions are calculated using the assumptions outlined in the construction permit. This report also includes the rolling 12-month totals required by the construction permit.

The EPA Greenhouse Gas (GHG) Mandatory Reporting Rule (Rule) - 40 CFR 98, Subpart HH, Section 98.343(b)(2)(C)(1) - requires municipal solid waste landfills to calculate methane generation. The methane generation is reported using EPA's electronic Greenhouse Gas Reporting Tool (e-GGRT), a web-based form developed for reporting to demonstrate compliance with the Rule. The report must be submitted no later than March 31 of each year. Greenhouse gasses from landfills with design capacities greater than 2.5 million Mg are typically subject to reporting under the mandatory greenhouse gas reporting rule.

As of the date on the currently approved EDOP, Gunnison County Landfill is not required to report per the EPA GHG Mandatory Reporting Rule. An annual report submitted through e-GRRT is not required. According to the rule, facilities will become subject to the reporting requirements if the MSW landfill exceeds the applicability requirements at a later time. An assessment determining if Gunnison County Landfill is required to report is completed annually. This assessment, along with annual waste acceptance records, will be maintained for APCD and EPA inspection upon request.

The purpose of completing the site specific density calculation is to determine if the design capacity of the landfill is above 2.5 million m^3 *and* 2.5 million megagrams. In accordance with the requirements of NSPS Subpart WWW §60.758(f), the site specific density calculation is required to be completed on an annual basis. Gunnison County provides the annual survey (typically completed in September) and the gate records for the past year. SMA will complete the calculation and accompanying report.

To complete this calculation, Gunnison County will provide a survey of the fill area. Gunnison County will also provide mass waste acceptance records from the same time period. SMA will calculate the density utilizing the mass of waste accepted in the same time period as the two surveys divided by the volume provided by the two surveys. The landfill design capacity will be recalculated using the calculated density and design capacity volume. SMA will also submit a site specific density calculation report along with the calculations to Gunnison County.

These services will be performed on a time and materials basis and SMA will invoice only for actual hours and expenses for completing the tasks.

SMA looks forward to working with Gunnison County on these projects. If you have questions or require additional information, please call Michael Pretti at 303 239-9011.

Sincerely,

SOUDER, MILLER & ASSOCIATES

Michael J. Pretti, P.E.
Senior Engineer

Attachment: Gunnison County Landfill – Phase 2, Modules 1 & 2 Construction CQAQC Cost Estimate; Souder, Miller & Associates

Gunnison County Landfill
Exhibit A - Cost Estimate for 2016 Engineering Consultant Services
Souder, Miller & Associates

			HOURS					COST							
Task	Description	Notes	Sr Eng I	Staff EIT II	Fld Tech III	CAD II	Admin II	Sr Eng I	Staff EIT II	Fld Tech III	CAD II	Admin II	Expenses	Lump Sum	Total
1.0	**Phase 2, Modules 1 & 2 Construction - CQAQC Cost Estimate**		$140	$90	$85	$75	$65	$140	$90	$85	$75	$65	--	--	--
1.1	**Project Meetings**	Pre-con meeting, 3 meetings during construction, and 1 final meeting	35	0	0	0	0	$4,900	$0	$0	$0	$0	$1,080	$0	**$5,980**
1.2	**Fieldwork:** Foundation layer, GCL, geocomposite/drainage layer, operations layer														
1.2a	*Foundation Layer Construction*	*10 days at 10 hrs/day; 10 days per diem; 10 days Nuclear Density Meter*	*0*	*0*	*100*	*0*	*0*	*$0*	*$0*	*$8,500*	*$0*	*$0*	*$1,400*	*$0*	*$9,900*
1.2b	*Geosynthetics*	*7 days at 10 hrs/day; 7 days per diem*	*0*	*0*	*70*	*0*	*0*	*$0*	*$0*	*$5,950*	*$0*	*$0*	*$980*	*$0*	*$6,930*
1.2c	*Drainage Layer and Operations Layer*	*13 days at 10 hrs/day; 13 days per diem*	*0*	*0*	*130*	*0*	*0*	*$0*	*$0*	*$11,050*	*$0*	*$0*	*$1,820*	*$0*	*$12,870*
1.2d	*Leachate Collection Pond*	*5 days at 10 hrs/day; 5 days per diem*	*0*	*0*	*50*	*0*	*0*	*$0*	*$0*	*$4,250*	*$0*	*$0*	*$700*	*$0*	*$4,950*
1.2e	*Travel Expenses*	*7 round trips - 400 mi and 8 hrs per round trip; one way only travel charged*	*0*	*0*	*28*	*0*	*0*	*$0*	*$0*	*$2,380*	*$0*	*$0*	*$756*	*$0*	*$3,136*
														Fieldwork Subtotal:	**$37,786**
1.3	**Soils Laboratory**	2 Proctors and Atterberg Limits, 4 grain size analyses, 1 hydraulic conductivity	0	0	0	0	0	$0	$0	$0	$0	$0	$1,500	$0	**$1,500**
1.4	**Geosynthetics Laboratory**	3 destructive seam test samples (2 for LCP and 1 for the sump)	0	0	0	0	0	$0	$0	$0	$0	$0	$150	$0	**$150**
1.5	**Project Management**	5 hours/week for 7 weeks	35	0	0	0	0	$4,900	$0	$0	$0	$0	$0	$0	**$4,900**
1.6	**Certification Report Preparation**	Lump Sum Cost	--	--	--	--	--	--	--	--	--	--	--	$14,500	**$14,500**
		Task 1 Subtotals:	***70***	***0***	***378***	***0***	***0***	***$9,800***	***$0***	***$32,130***	***$0***	***$0***	***$8,386***	***$14,500***	***$64,816***
2.0	**Annual Groundwater Statistical Report Preparation**														
2.1	**Spring Statistical Report Preparation**	Includes Data Analysis and CDPHE Notification Letter for Spring Sampling Event	1	6	0	0	2	$140	$540	$0	$0	$130	$0	$0	**$810**
2.2	**Fall Statistical Report Preparation**	Includes CDPHE Notification Letter and Annual Stats Report Preparation	16	24	0	5	6	$2,240	$2,160	$0	$375	$390	$0	$0	**$5,165**
		Task 2 Subtotals:	***17***	***30***	***0***	***5***	***8***	***$2,380***	***$2,700***	***$0***	***$375***	***$520***	***$0***	***$0***	***$5,975***
3.0	**Air Compliance Services**	Includes Site Specific Density Calculations, Annual VOC Report, and e-GGRT Assessment	3	16	0	0	2	$420	$1,440	$0	$0	$130	$0	$0	**$1,990**
		Task 3 Subtotals:	***3***	***16***	***0***	***0***	***2***	***$420***	***$1,440***	***$0***	***$0***	***$130***	***$0***	***$0***	***$1,990***
														Total Estimated Cost	***$72,781***

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