



**ANNUAL CONTRACT RENEWAL
WORKPLAN FOR SAMPLING, ANALYSIS, AND REPORTING
RELATED TO 2024 ENVIRONMENTAL MONITORING FOR
RAPID CITY LANDFILL
RAPID CITY, SOUTH DAKOTA**

DECEMBER 26, 2023

AUTHORIZATION

FOR THE CLIENT:

Client: City of Rapid City, Rapid City Landfill

Authorized Signature: _____

Typed Name: Jason Salamun

Title: Mayor

Date: _____

Attest: _____ **Date:** _____
Daniel Ainslie, Finance Director

ACCEPTANCE

FOR AMERICAN ENGINEERING TESTING, INC:

Authorized Signature: 

Typed Name: Robert A Prann

Title: Environmental Project Manager

Date: December 26, 2023

EXHIBIT A **PURPOSE AND SCOPE OF WORK TO BE PERFORMED**

The purpose of our work on the project will be to assist the City of Rapid City in accordance with regulatory requirements and the City's solid waste permit as issued by the South Dakota Department of Agriculture and Natural Resources (SD DANR).

To accomplish the above, we propose to provide professional services to the City of Rapid City in the form of labor, equipment, supplies, insurance, and other necessary work components necessary to perform the following tasks for Rapid City Solid Waste Operations Division:

1. Field sampling surface water discharges, wastewater discharges, and groundwater monitoring wells.
2. Laboratory analysis of surface water samples, wastewater samples, groundwater samples, petroleum contaminated soil samples, and yard waste compost samples.
3. Quarterly screening of permanent and existing temporary methane monitoring wells, methane surface emissions, and measurement of water levels in select wells.
4. Calculating and evaluating Greenhouse Gas (GHG) Emissions.
5. Completion and submission of the annual groundwater monitoring report.
6. Monthly monitoring of wastewater from the leachate extraction well vault, Cell 16, and the Leachate Pond.
7. Semi-annual composite sampling of all leachate control systems (Cells 12 and 16, and Stormwater Discharge Point 04).

RESPONSIBILITY AND ANTICIPATED WORK ITEMS

Surface Water

1. Provide qualified personnel for surface water discharge sampling with a minimum of one hour notice. This is estimated to occur twelve times per year during high precipitation months.
2. Secure prepared sample bottles, trip blanks and all other items needed for sampling from a state-certified lab and, upon completion of sampling, return all samples to that lab with a properly completed chain of custody. A properly completed chain of custody indicates, at a minimum, the time and date of sample collection, name of person collecting the sample (printed and signed), collection container markings, any field measurements and the preservatives used for all analysis results including pH and field temperature.
3. Collect grab samples weekly during discharge from Outfall 001 and test for the following:
 - a. TSS, TPH, pH, BOD5's, Cd, Cu, Pb, Hg, Zn, As, CrIII, CrVI, Se, Ag, Ni, selenate, selenite, hardness, phenol, toluene, ammonia, DO, and temperature.

4. Sample for whole effluent toxicity testing if requested or required.
5. Measure field pH and temperature at time of sampling. Temperature must be measured with a thermistor or with a mercury filled or dial type thermometer. Readings must be recorded to the nearest whole degree Celsius. The date and exact time must be recorded on field logs and on the chain of custody.
6. pH is to be measured within 15 minutes of sample collection with a pH meter. The pH meter must read to the 0.01 SU, be equipped with a temperature compensation adjustment and be capable of simultaneous calibration to two points on the pH scale bracketing the expected pH.
7. If a visual sheen is observed during sampling, a grab sample for TPH analysis is required.
8. Metals analysis will be performed on a Total Recoverable Basis and hardness must be measured at the same time the metals are sampled.
9. Analytical results will be reported to Rapid City Solid Waste Operations. Any concentrations exceeding discharge permit limits will be reported directly to the Solid Waste Operations Superintendent as soon as known.
10. Forward copies of all field logs, including visual observations and field measurements, to Solid Waste Operations within 72 hours of the sampling.
11. A summary of the surface water sampling will be incorporated into the annual report.

Wastewater

1. Provide qualified personnel for required wastewater testing with a minimum of two-hour notice of a discharge. This is estimated to occur approximately 10 times per year. Occurrence may increase with greater precipitation or future operational changes.
2. Gathering prepared sample bottles, trip blanks and all other items needed for sampling from a state-certified lab and, upon completion of sampling, return all samples to that lab with a properly completed chain of custody.
3. Collect grab samples once per batch discharge from aerated leachate pond and tested for the following analytes: As, Cd, Cr, CrVI, Cu, Pb, Hg, Ni, Se, Ag, Zn, Oil & Grease, BOD, TSS, field pH, TPH, and temperature. Batch discharges are usually complete within 12 hours of start.
4. Field pH is measured within 10 minutes after sample collection.
5. Analytical results will be reported in mg/l, except for pH, which is to be reported in standard units. Analysis will include the date of analysis, the analyst's initials, and a list of analysis method numbers used, as approved by 40 CFR 136.
6. Notify the Solid Waste Operations Superintendent immediately if field pH readings are 5.0 SU or less.
7. Notifying the Solid Waste Operations Superintendent, as soon as known, if any concentrations exceed discharge permit limits.
8. Forward copies of all field logs, including visual observations and field measurements, to Solid Waste Operations within 72 hours of the sampling event.
9. Provide semi-annual composite sampling of the leachate control systems (Cell 12 and 16 and Stormwater Discharge Point 04). Composite sampling shall be conducted as per the Rapid City Landfill's Industrial Wastewater Discharge Permit Number 40.2. Samples will be analyzed for As, Cd, Cr, Cr, VI, Cu, Pb, Hg, Ni, Se, Ag, Zn, O&G, BOD, TSS, field pH and temperature. Composite sampling shall be conducted as per

- the Rapid City Landfill's Industrial Wastewater Discharge Permit Number 40.2. Constituents are the same as listed above.
10. Monthly composite sampling of the leachate control systems (Cells 12 and 16 and Stormwater Discharge Point 04) will be conducted in a manner to meet the Rapid City Landfill's Industrial Wastewater discharge permit Number 40.2. Samples will be analyzed for BOD, TSS, field pH, and temperature.
 11. A summary of the above wastewater sampling will be incorporated into the annual report.

Groundwater Monitoring

1. Provide qualified personnel for semi-annual groundwater monitoring. Up to 20 wells are sampled during the second and fourth quarter monitoring events.
2. Secure prepared sample bottles, trip blanks and all other items needed for sampling from a state-certified lab and, upon completion of sampling, return all samples to that lab with a properly completed chain of custody.
3. Utilize all appropriate quality assurance and quality control practices for sampling of groundwater.
4. Measure and record groundwater elevations during both semi-annual samplings for all site monitoring wells (27 Wells).
5. Collect samples from each well using low flow sampling techniques (a peristaltic pump and a flow cell). A disposable bailer will be used for wells 1-8-19da4 and 1-8-19da5 because the well depths exceed the capability of the peristaltic pump.
6. Sample and analyze monitoring wells **1-8-19dab2** (if insufficient water, sample **1-8-19dab1**), **1-8-19dd**, **1-8-19ddd2** (if insufficient water, sample **1-8-19ddd1**), **1-8-19dc**, **1-8-19cdd2** (both **1-8-19cdd1** and **1-8-19cdd2** are historically dry), and **1-8-19cab1**, **1-8-19ad1**, **1-8-19ad2R**, **1-8-19ca2**, **1-8-19da1**, **1-8-19da2**, **1-8-19da4**, **1-8-19da5**, **1-8-19dda**, **1-8-19ab1**, **1-8-19ac1**, **1-8-19ad3**, and **1-8-19bd1** semi-annually for 40 CFR Appendix I volatile organic compounds (VOCs) and the alternative list of metals - biochemical oxygen demand (BOD), chemical oxygen demand (COD), total organic carbon (TOC), chloride, ammonia, sulfate, sulfide, dissolved iron and manganese, methane, nitrate, and major cations (calcium, sodium, potassium). Field measurements for temperature, pH, conductivity, dissolved oxygen (DO), and oxidation-reduction potential will be performed at each well during sampling using a low flow purging method via a flow-through cell. All groundwater monitoring will be done in accordance with the approved groundwater monitoring program (GWMP) for the Rapid City Landfill, as approved by the SD DANR. Sampling and analyzing for total metals is no longer required in the approved Ground Water Monitoring Plan (GWMP) but may continue at the City's discretion and will be discussed and finalized in final contract negotiations. Samples will be collected using low flow methods or disposable bailer in the case of wells 1-8-19da4 and 1-8-19da5.
7. Sample monitoring wells **1-8-19ddr** and **1-8-19adc** semiannually for 40-CFR Appendix I volatile organic Compounds (VOCs) and the alternative list to metals as listed previously. Samples from these wells may also be analyzed for total mercury (Hg). Field measurements for temperature, pH, conductivity, dissolved oxygen (DO), and oxidation-reduction potential will be performed at each well during sampling using a low flow purging method via a flow-through cell. All groundwater monitoring will be done in accordance with the approved groundwater monitoring program (GWMP) for

- the Rapid City Landfill, as approved by the SD DANR. The analytical results from these wells will not be reported to the SD DANR in the annual report, but under separate cover.
8. All results from the semi-annual monitoring events, along with field logs and field measurements, must be forwarded to Solid Waste Operations upon completion.
 9. Any samples which exceed regulatory limits are to be reported to the Solid Waste Operations Superintendent as soon as known.
 10. Compile and complete a statistical analysis of the new data and enter the data into the annual groundwater report. The statistical analysis procedure chosen must comply with 40 CFR Part 258.53, Sections e through i.
 11. Complete an annual report summarizing the groundwater monitoring data for each year with appropriate statistical comparison to prior data. An initial report must be completed and submitted to Solid Waste Operations no later than February 15 of the following year and two final copies must be submitted (one to Solid Waste Operations and one to SD DANR) by April 1 of the following year. This report must discuss the applicable items in 40 CFR Part 258.53, Sections a through i.
 12. All electronic files related to the groundwater monitoring statistical analysis and annual reports shall be maintained and provided to Solid Waste Operations upon request.

Groundwater (VOC Sampling)

1. Providing qualified personnel for quarterly groundwater monitoring. Up to two wells will be sampled during the monitoring events.
2. Gathering prepared sample bottles, trip blanks, etc. from state-certified lab and returning all to lab upon completion of sampling with a properly completed chain-of-custody.
3. Utilizing all appropriate QA/QC practices for field sampling of groundwater.
4. Measuring and recording groundwater elevations during quarterly sampling events for the two site monitoring wells.
5. Collecting samples from each well using a peristaltic pump and flow cell. Samples will be collected using low flow methods or disposable bailer in the case of well 1-8-19da4.
6. Sampling wells 1-8-19da3 and 1-8-19da4, quarterly for 40 CFR Appendix I VOCs. Field measurements for temperature, pH, conductivity, dissolved oxygen (DO), and oxidation reduction potential will be performed at each well during sampling using a low flow purging method via a flow-through cell. Samples will be collected using low flow methods.
7. Forwarding analytical results and field measurements for the quarterly monitoring events to Solid Waste Operations upon completion.
8. Notifying the Solid Waste Operations Superintendent, as soon as known, if any concentrations exceed regulatory limits.
9. Compiling the new data and entering the data into the annual groundwater report.
10. Maintaining electronic files related to groundwater monitoring, statistical analysis and annual reports will be provided to the Solid waste Operations upon request.

Quarterly Methane Monitoring and Groundwater Level Measurements

1. Provide qualified personnel and equipment for quarterly field screening for methane from permanent and existing temporary methane monitoring wells.
2. Conduct surface emission monitoring in accordance with Administrative Rules of South Dakota (ARSD) 74:36:07:40 and 40 CFR 60.755(c) and 60.756(f).
3. Measure ground water elevations in ground water monitoring wells located in the north/northeast section of the landfill property, including wells 1-8-19da3, 1-8-19da4, 1-8-19adc, 1-8-19dab1, 1-8-19dab2, 1-8-19da1, 1-8-19da2, 1-8-19da5, 1-8-19ddR, 1-8-19dd, 1-8-19ad1, 1-8-19ab1, 1-8-19ac1, 1-8-19ad3, and 1-8-19bd1.
4. Submit a summary of the results of the above activities within the annual report.
5. Advise Solid Waste Operations Superintendent of any significant issues related to methane.

Greenhouse Gas Emissions Calculations

1. Utilizing historical scale data to calculate GHG Emissions to provide information on whether the Rapid City Municipal Landfill is likely to exceed the 25,000-metric ton GHG emissions limit that will trigger the requirement to perform the mandatory reporting of GHG emissions to the EPA. The work will be performed in accordance with 40 CFR 98, subparts A and HH.
2. Utilizing the historical scale data through the end of each year to calculate GHG Emissions for the Rapid City Municipal Landfill. This information will be provided to the City of Rapid City for their records. If the GHG emissions are calculated to exceed the mandatory reporting limit, provide the GHG Emission information to the City of Rapid City in a format required for submittal to either the SD DANR or EPA.
3. Assist City of Rapid City with all required reporting for GHG emissions required by EPA or the SD DANR under 40 CFR Part 98 subparts A Section 98.1-98.8 and subpart HH section 98.340 - 98.348.

Additional Testing as Required

Each year the work items will be reviewed, and additional tasks may be added based upon environmental monitoring needs or as required by the regulatory or operating entity.

ENVIRONMENTAL SERVICES FEE SCHEDULE
 2024 ENVIRONMENTAL MONITORING
 RAPID CITY LANDFILL
 RAPID CITY, SOUTH DAKOTA, 57701
 AET PROPOSAL No. P-0019561.01



SERVICE DESCRIPTION	PROJECT BUDGET		
	ESTIMATED UNITS	UNIT RATE	BUDGET AMOUNT
<i>Groundwater Monitoring</i>			
Groundwater Monitoring Job Prep/Mobilization - Tech IV	16 Hour	\$116.00	\$1,856.00
Groundwater Monitoring Travel (to and from site) - Tech IV	26 Hour	\$116.00	\$3,016.00
Groundwater Monitoring Well Sampling - Tech IV	112 Hour	\$116.00	\$12,992.00
Labor Subtotal:			\$17,864.00
Sampling Materials (GW or Soil)	50 Sample	\$6.00	\$300.00
YSI Multi Parameter Meter	6 Event	\$105.00	\$630.00
Water Level Probe	6 Event	\$58.00	\$348.00
Peristaltic Pump	6 Event	\$68.00	\$408.00
Mileage	380 Mile	\$1.00	\$380.00
Lab Services (VOC Samples and Equip Blanks)	10 Test	\$150.45	\$1,504.50
Lab Services (Groundwater Samples)	40 Test	\$524.88	\$20,995.20
Equipment and Expenses Section Subtotal:			\$24,565.70
<i>Quarterly Methane Monitoring</i>			
Investigation Job Prep/Mobilization - Tech IV	8.5 Hour	\$116.00	\$986.00
Investigation Travel (to and from site) - Tech IV	4.5 Hour	\$116.00	\$522.00
Investigation Onsite Time - Tech IV	42 Hour	\$116.00	\$4,872.00
Labor Subtotal:			\$6,380.00
Explosimeter/Combustible Gas Indicator	4 Day	\$105.00	\$420.00
Mileage	180 Mile	\$1.00	\$180.00
Equipment Rental (Combustible Gas Rover)	6 Each	\$330.00	\$1,980.00
Lab Services (C-N Ratio Yardwaste Samples)	90 Each	\$45.00	\$4,050.00
Equipment and Expenses Subtotal:			\$6,630.00

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 2024 ENVIRONMENTAL MONITORING
 RAPID CITY LANDFILL
 RAPID CITY, SOUTH DAKOTA, 57701
 AET PROPOSAL No. P-0019561.01



SERVICE DESCRIPTION	PROJECT BUDGET		
	ESTIMATED	UNIT	BUDGET
<i>Water and Wastewater Monitoring</i>			
Water Monitoring Job Prep/ Mobilization - Technician IV	61.5 Hour	\$116.00	\$7,134.00
Water Monitoring Travel (to and from site) - Technician IV	46 Hour	\$116.00	\$5,336.00
Water Monitoring Onsite Time - Technician IV	76 Hour	\$116.00	\$8,816.00
Labor Subtotal:			\$21,286.00
Sampling Materials (GW or Soil)	58 Sample	\$6.00	\$348.00
pH Meter	34 Day	\$53.00	\$1,802.00
ISCO Autosampler	12 Day	\$63.00	\$756.00
Mileage	782 Mile	\$1.00	\$782.00
Lab Services (Monthly Leachate Samples)	30 Tests	\$48.88	\$1,466.40
Lab Services (SemiAnnual and Grab Leachate Samples)	16 Tests	\$359.34	\$5,749.44
Lab Services (Surface Water Samples)	12 Tests	\$816.43	\$9,797.16
Lab Services (Whole Effluent Toxicity Samples)	2 Tests	\$900.00	\$1,800.00
Equipment and Expenses Subtotal:			\$22,501.00
<i>Project Management and Reporting</i>			
Project Administrator	3 Hour	\$68.00	\$204.00
Draftsperson I	10 Hour	\$100.00	\$1,000.00
Project Manager I	49 Hour	\$130.00	\$6,370.00
Geologist I	153 Hour	\$120.00	\$18,360.00
Project Manager II	4 Hour	\$155.00	\$620.00
Labor Subtotal:			\$26,554.00
ESTIMATED BUDGET			\$125,780.70

EXHIBIT C
2024 ENVIRONMENTAL SERVICES RATE SCHEDULE



West Region 2024 Environmental Fee Schedule

AET Employee Personnel Rates		
Service Item	Unit	Rate
Administrative Assistant, Level I	Hour	
Administrative Assistant, Level II	Hour	
Draftsperson	Hour	
Drilling Technician	Hour	
Environmental Crew Chief-Mobilization/Job Preparation, Drilling Work, Utility Clearance, Boring Locate/Elevate	Hour	
Environmental Crew Chief-Travel, Field, Standby	Hour	
Environmental Driller-Mobilization, Drilling Work, Utility Clearance, Boring Locate/Elevate	Hour	
Environmental Driller-Travel, Field, Standby	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist Staff Professional	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Boring Locate/Elevate	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Drilling Work	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Field Standby	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Laboratory Hourly	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Meeting/Consultation	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Mobilization/Job Preparation	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Project Management	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Report Preparation	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Technical Review	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Travel	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Utility Clearance	Hour	
Environmental Hydrologist/Geologist/Engineer/Scientist/Staff Professional-Field	Hour	
Environmental Principal-Technical Review	Hour	
Environmental Project Manager-Boring Locate/Elevate	Hour	
Environmental Project Manager-Drilling Work	Hour	
Environmental Project Manager-Field	Hour	
Environmental Project Manager-Field Standby	Hour	
Environmental Project Manager-Laboratory Hourly	Hour	
Environmental Project Manager-Meeting/Consultation	Hour	



Environmental Project Manager-Mobilization/Job Preparation	Hour
Environmental Project Manager-Project Management	Hour
Environmental Project Manager-Report Preparation	Hour
Environmental Project Manager-Technical Review	Hour
Environmental Project Manager-Travel	Hour
Environmental Project Manager-Utility Clearance	Hour
Environmental Technician	Hour
Environmental Technician-Boring Locate/Elevate	Hour
Environmental Technician-Field	Hour
Environmental Technician-Field Standby	Hour
Environmental Technician-Laboratory/Office	Hour
Environmental Technician-Mobilization/Job Preparation	Hour
Expert Witness-Deposition or Court Time (4-hour minimum)	Hour
Expert Witness-Litigation Preparation	Hour
Geologist, Level I	Hour
Geologist, Principal	Hour
Geologist, Senior	Hour
Project Manager	Hour
Scientist, Principal	Hour
Sr. Environmental Project Manager-Meeting/Consultation	Hour
Sr. Environmental Project Manager-Project Management	Hour
Sr. Environmental Project Manager-Technical Review	Hour
Sr. Environmental Technical Specialist-Boring Locate/Elevate	Hour
Sr. Environmental Technical Specialist-Drilling Work	Hour
Sr. Environmental Technical Specialist-Field/Field Standby	Hour
Sr. Environmental Technical Specialist-Laboratory Hourly	Hour
Sr. Environmental Technical Specialist-Mobilization/Job Preparation	Hour
Sr. Environmental Technical Specialist-Sample Preparation	Hour
Sr. Environmental Technical Specialist-Travel	Hour
Sr. Environmental Technical Specialist-Utility Clearance	Hour
AET Equipment Rental	
Service Item	Unit
2.25" Expendable Point	Each
30 Gallon Drum (Reconditioned)	Each
55 Gallon Drum (Reconditioned)	Each
Air Compressor (Standard)	Day
Anemometer	Day
Beam Mold Rental	Mold
Enclosed Trailer	Day
Explosimeter/Combustible Gas Indicator	Day
Generator (115V)	Day
Grout Pump	Day
Grunfos 2" Pump w/Controller	Day
Hand Auger	Day
Jack Hammer	Day
Low Flow Air Pump	Day
MC PVC Liner 60"	Each
Metal Detector	Day



Oil-Water Interface Sensor	Day
Peristaltic Pump	Day
pH Meter	Day
PID/hNu	Day
Portable Coring Equipment	Day
Regenerative Blower (1.5 HP or 5.0 HP)	Day
Sampling Materials (GW or Soil)	Sample
Sensidyne Pump	Day
Steamer-Decon Trailer	Day
Submersible Pump (4")	Day
Survey Equipment	Day
Trimble GPS	Day
Utility Trailer	Day
Water Level Indicator	Day
Widen or Transfer Pump	Day
AET Project Direct Expenses	
Service Item	Unit
Bailers	Each
Bit Wear	Inch
Per Diem (meals)	Day
Personal Protective Gear-Level C/person	Each
Personal Protective Gear-Modified Level D/person	Each
Sorbent Sock	Each
SPT Drilling (Soil Borings)	Foot
Tedlar Bag	Each
AET Vehicle Mileage	
Service Item	Unit
1 to 2 1/2 ton Truck with Drill Rig	Mile
Drill Rig Support Vehicle	Mile
Pickup Truck	Mile
Environmental Field Services	
Service Item	Unit
¾ Ton Pickup	Day
Geoprobe	Hour
Geoprobe w/One Man Crew	Hour
Geoprobe w/Two Man Crew	Hour
Rotary Auger Drill Rig	Hour
Rotary Auger Drill Rig w/Two Man Crew	Hour
Groundwater Monitoring Equipment Rental	
Conductivity Meter	Day
Ground Water Multi Meter-pH/Temp/ORP/Conductivity/DO	Day
Water Level Probe	Day

MID CONTINENT TESTING LABS, INC

Rapid City Landfill Pricing

Effective Until 12/31/2024

Pricing and Service Notes

Mid Continent Testing supplies lab grade organic free water at no charge for trip blanks and bailer blanks.

Mid Continent Testing **does not charge for trip blank** analysis but does charge for bailer blank analysis.

No added environmental impact fee per COC, sample disposal fees per sample, or minimum work order fees.

The quoted sample price includes all fees except tax.

MCT retains the right to return samples to the client for disposal.

All field measurement data can be included on Mid Continent Testing reports and database at no charge.

2023 Pricing **2024 Pricing**
Unit Cost Unit Cost

Surface Water Discharge (Outfall-001)	2023 Pricing	2024 Pricing
	Unit Cost	Unit Cost
TSS		
TPH (as Oil and Grease)		
BOD		
Total Recoverable Metals (Arsenic, Cadmium, Chromium, Chromium-VI Copper, Lead, Mercury, Nickel, Selenium, Silver, Zinc)		
Selenium IV +Selenium VI		
Hardness		
Phenol		
Toluene		
Ammonia, As N		
Dissolved O2		
pH		
Field pH		
Field temperature		
Field DO		
Total		
Discount 15%		
Final Cost		
*SeIV/VI cost		
Wastewater Leachate Pond(Leachate Vault extended list)		
BOD		
TSS		
Total Recoverable Metals (Arsenic, Cadmium, Chromium, Chromium-VI, Copper, Lead, Mercury, Nickel, Selenium, Silver, Zinc)		
Oil & Grease		
Total		
Discount 15%		
Final Cost		
Mercury Only by alternative method 1631e		
Discount 15%		
Final Cost		

MID CONTINENT TESTING LABS, INC

Rapid City Landfill Pricing

Effective Until 12/31/2024

Pricing and Service Notes

Leachate Vault or Cell 16 Monthly/sample

BOD

TSS

Total
Discount 15%
Final Cost

Groundwater Analysis

40 CFR Appendix I VOC's

BOD

COD

TOC

Chloride

Ammonia

Sulfate

Sulfide

Dissolved Iron

Dissolved Manganese

Methane

Nitrate

Major Cations (Calcium, Potassium & Sodium)

Total
Discount 15%
Final Cost

Livestock Suitability (TDS, Alkalinity, Nitrate+ Nitrite, Sulfate)

Discount 15%
Final Cost

Whole Effluent Toxicity (subcontracted)

Petroleum Contaminated Soils

TPH as Gasoline + BTEX, MTBE and Naphthalene

TPH as Diesel + Naphthalene

Total
Discount 15%
Final Cost

Yard Waste Compost

Carbon - Nitrogen Ratio

Discount 15%
Final Cost