

# **City of Scottsbluff, Nebraska**

**Monday, March 15, 2021**

**Regular Meeting**

## **Item Reports3**

**Council to discuss and consider action on Change Order and Authorization to Proceed with Trihydo Corporation for site investigations and drafting of a permit for a new landfill and authorize the Mayor to sign the Work and Change Orders.**

**Minutes:** When the City moved to the Gering Landfill part of our agreement was to contribute \$7.50 per ton to a fund established to begin the process of creating a new landfill. This amount was in addition to an agreed upon tipping fee. The fund now has reached roughly \$1.6M. Only if both Gering and Scottsbluff withdraw from further participation in creating a new landfill would the money be returned. An agreement recently approved by both cities is in also in place requiring both communities to approve spending out of the fund. Under this agreement the fund has financially supported engineering, investigations related to endangered species and most recently steps toward acquiring 300 acres of land located 17 miles north of Scottsbluff. The request under consideration today is to fund monitoring wells necessary to study ground water levels. These monitoring wells will guide decisions about suitability of the site, future permitting and design considerations. The wells are a necessary next step in continuing participation in the process of creating the new landfill. However, approval of this latest step is not a long term commitment to participate in the landfill. Further participation beyond this step will be based on creation of an agency responsible for guiding and managing the new landfill as well as refined costs related to establishing it.

**Staff Contact: Dustin Rief, City Manager**



March 3, 2021

Ms. Annie Folck, P.E.  
City Engineer  
City of Gering  
1025 P Street  
Gering, NE 69341

RE: Revised Cost Proposal for Site Characterization, Design, Permitting, and Groundwater  
Monitoring for the Western Nebraska Regional Landfill, Sioux County, Nebraska

Dear Ms. Folck:

Trihydro Corporation (Trihydro) appreciates the opportunity to provide this revised cost proposal and work change order (WCO) to the Cities of Gering and Scottsbluff (Cities). The purpose of this letter is to summarize project activities conducted to date and provide a site-specific budgetary estimate to complete Step 1. Activities within Step 1 include site characterization, geotechnical investigation, site survey, preliminary conceptual design, cost estimates, and groundwater monitoring for the proposed Western Nebraska Regional Landfill (WNRLF) site located in Sioux County, Nebraska.

### **Project Background**

The Cities and Trihydro executed an Engineering and Consulting Services General Basic Agreement and Work Order No. 18-134WO-E on September 10, 2018. The Work Order authorized Trihydro to commence work on Step 1 as described in the Statement of Qualifications and Technical Proposal dated February 6, 2018 and revised on May 7, 2018. Step 1's original budget was \$264,512.

A project kickoff meeting was held on October 5, 2018 with the Cities. At that meeting the Cities suggested starting from scratch to identify a suitable landfill site and requested Trihydro evaluate sites within a 45-mile radius of the Cities (planning area). Trihydro's evaluation of the planning area resulted in establishing five study areas. Each study area was evaluated and Trihydro identified potential properties suitable for landfill development and landowner contacts. Trihydro also created a project website to provide information to the public and prepared a press release to notify landowners that the Cities were seeking to acquire property for a landfill.

Three landowners did come forward early in the process, but these sites were determined to be unsuitable as they did not meet siting criteria. Trihydro and the Cities met with County Commissioners from surrounding counties to identify potential sites and willing landowners. The lack of interest from landowners led the Cities to request that Trihydro evaluate all Board of Education, Lands, and Trust



(BELF) sections in the planning area and to determine if it would be feasible to acquire a BELF section. Trihydro conducted site analysis for approximately 30 sections and found a section in Sioux County which would have been an ideal landfill site. Trihydro prepared a “Solid Waste Management Cost Analysis” report (report) at the Cities direction with this site serving as the basis for conceptual design. The report evaluated two design options; compared direct haul and transfer costs; and provided life cycle cost estimates which demonstrated construction of a new landfill was feasible.

In May and June of 2020, a landowner provided five parcels for consideration in Sioux County. Four parcels were identified as potentially suitable landfill sites. Preliminary wildlife surveys were conducted at the Cities’ request to determine if threatened or endangered species were present. On June 16, 2020, based on information gathered during the wildlife surveys, the Cities selected the south half of Section 19 and the north half of Section 30 in Township 25 North, Range 54 West as the future landfill site. Trihydro prepared two conceptual designs of the preferred site between June 17<sup>th</sup> and July 6<sup>th</sup>. After submitting two additional preliminary conceptual designs of the candidate site to the Cities, Trihydro was directed by the Cities to postpone Step 1 activities until a purchase option was executed between the Cities and the landowner. This purchase option was executed in December 2020.

While the process to identify a suitable landfill site was intensive and varied significantly from the contract’s scope of work, it did result in the identification of a site that is suitable for a landfill. The candidate site is located near a state highway; is within 20-miles of the Cities; has the potential for over 100-years of site life; has favorable groundwater conditions (over 160-feet deep); and has site soils which may be suitable for use in construction of the landfill. While additional expenses were incurred to find a suitable site and to perform geotechnical investigations, the Cities will have a landfill site which will be protective of the environment and serve the region far into the future.

### **Step 1 Activities to Date and Scope of Work Modifications**

Trihydro’s initial contract with the Cities was prepared without a specific landfill site in mind. Thus, the activities and assumptions included in our original proposal were very general and were not site specific. Now that a site has been selected, Trihydro proposes to modify the tasks and assumptions associated with Step 1 of the project to reflect site-specific requirements and address additional services that have been provided to date. The following provides a general discussion of the original scope of work (SOW), work performed to date, additional activities, and proposed SOW specific to the selected site for each Step 1 task:

- **Task 1: Preliminary Geotechnical Investigations.** Activities under this task included desktop analysis of 9 sites with additional Nebraska Board of Educational Lands and Funds (BELF) properties analyzed for potential landfill sites. This desktop analysis included use of GIS or other available sources of data for zoning, land use, slopes, geotechnical information, soils data, and locational information to determine if a site was suitable for a new landfill.



The original SOW included conducting a desktop analysis of up to 5 candidate sites, while a total of 9 were analyzed with this task. In addition, discussions with BELF and analysis of several state land sections were conducted with this task. Overall, locating a site suitable for acquisition and a willing landowner required far more effort than anticipated. In reference to the selected site, this task is considered complete. A change order amount of \$28,228 is requested to closeout this task.

- **Task 2: Site Survey.** As a suitable site has now been selected, Trihydro will coordinate with Baker & Associates for the survey of the two half sections (including Highway 71 right-of-way); prepare the access easement and boundary exhibits; and prepare legal descriptions. A topographic survey will also be conducted utilizing traditional survey methods or small unmanned aircraft systems (sUAS) methods. Site features such as topography, drainage features, approaches, fences, and above-ground utilities will be surveyed. Staking and as-built information for all geotechnical boreholes and groundwater monitoring wells will be included.

The original contract scope did not include the boundary survey or easement descriptions as the original task list was based around a topographic survey only. These additional tasks are required per the permitting regulations and will be needed during the permit process. Conducting these activities now will reduce additional costs by combining them with other survey activities at the site. The change order amount requested of \$7,846 will include these additional activities for this task.

- **Task 3: Geotechnical Work.** A number of activities were planned under this task in the original contract scope, including geotechnical borehole drilling, sampling, analysis, and reporting (for up to 20 boreholes); and, groundwater monitoring well installation and hydrogeologic testing (for up to 8 wells of 50-foot depth). Data obtained from field investigations will support landfill design and permitting. This task includes a meeting with NDEE to develop a Work Plan, preparation of the Work Plan, three mobilizations for subsurface activities, and preparation of a Subsurface Investigation (SSI) Report.

Costs for this task have notably increased since our last proposal based on the anticipated depth to first groundwater (~160 feet), which is significantly deeper than the groundwater conditions anticipated at the time of the original proposal. While this depth to groundwater increases the costs of the drilling effort, it is a positive characteristic for the proposed landfill facility as it minimizes any environmental impact on groundwater resources.

Trihydro is proposing to utilize a phased approach for the geotechnical work. In order to reduce initial drilling costs, we are proposing to install fewer wells and boreholes. The number of monitoring wells has been reduced to a total of five, and the boreholes reduced to a total of twelve. Over the course of the last month, we made several attempts to discuss our proposed approach with the Nebraska Department of Energy and Environment (NDEE). NDEE was reluctant to provide feedback on our approach until local governmental agency approval was obtained from Sioux County. The Cities should be aware that additional wells may be required by NDEE as part of Step 2.



Five drilling firms and two geotechnical analysis firms were contacted for quotes to service this project. Due to the technical aspect of drilling at this site and Nebraska licensing requirements, only three out of the five drillers were able to provide bids. Cascade was selected for well installation based on their expertise with sonic drilling (ideal for deep monitoring well installation in the local geologic formation) as well as their competitive pricing. Inberg-Miller Engineers (IME) was selected to conduct all work relating to the geotechnical borehole drilling, sampling, analysis, and reporting because they are equipped to do all tasks in the most seamless and cost-effective manner.

While the notable difference in monitoring well depth increases costs, the reduction in overall drilling locations helps compensate for that, resulting in a change order amount requested for this task of \$127,562. This task amount also includes the total of Task 6 – Seismic Impact Zones as that work will be done during the same mobilization and analysis of the boreholes.

- **Task 4: Surface Drainage Analysis.** This task includes evaluation of the existing surface as surveyed for surface drainage features, ponding, and other aspects. Comparing the existing surface to a conceptual final project, calculations required to determine the surface drainage requirements for the site will be conducted as part of this task. No change in task budget is being requested.
- **Task 5: Archaeological Survey and Threatened and Endangered Species.** Activities for this task include performing an environmental review of the selected site including verifying that no environmental, cultural resources, or sensitive fauna (i.e., swift fox) will prevent landfill construction. Wildlife surveys will be conducted in coordination with Nebraska Game and Parks Commission (NGPC), and Class III cultural resource inventories (CRI) will be conducted in accordance with the Nebraska State Historic Preservation Office (NSHPO) requirements.

A portion of this task has been completed as part of the site suitability investigation. The remaining tasks include conducting the Class III CRI and setting camera traps to determine if existing burrows are active swift fox burrows.

The activities thus far have been completed ahead of budget for this task. The remaining tasks are estimated to take less effort than previously anticipated, and the change order request for this task is a reduction of \$12,574.

- **Task 6: Seismic Impact Zones.** Analysis of the selected site's relative location to known faults and other seismic zones is required as part of the permitting process. To reduce costs and additional investigation expenses, the tasks and activities associated with this requirement were included in the subcontractor's proposals in Task 3: Geotechnical Work. As such, the budget that was assigned to this task can be combined with Task 3, reducing this task by \$6,350.
- **Task 7: Preliminary Conceptual Design.** Under this task, Trihydro will utilize survey and site inventory data to prepare a conceptual layout for the landfill and its supporting structures at the 30% and 50% design levels. Trihydro and the Cities' goal is to reduce the landfill permit boundary to



less than 300-acres. A preliminary schedule and cost estimates will be provided and discussed with the stakeholders at each submittal meeting.

To date, four conceptual designs, a solid waste cost analysis report, and analysis of transfer alternatives were prepared as part of this task. This work was not included in the original SOW. The majority of the activities associated with this task will still be required to be conducted for the selected site. The change order request for this task is \$25,206 to complete the remainder of these activities.

- **Task 8: Preliminary Cost Estimate.** This task includes preparation of the cost estimate based on the conceptual design and the known characteristics of the selected site. A preliminary cost estimate for the selected site will need to be prepared. The change order request for this task is \$8,594 to complete this task since the budget was exceeded during preparation of the “Solid Waste Management Cost Analysis Report” which was based on a previous candidate site.
- **Task 9: Preliminary Schedule using MS Project with Gantt Chart.** The preliminary schedule for the project using a Gantt Chart format within MS Project has not yet been done for the selected site. No additional work is proposed nor any out-of-scope items have been completed for this task, thus a change order is not required for this task.
- **Task 10: Meetings.** Meetings for this task include meeting with the Owner, community, and others as necessary including monthly conference calls, on-site project meetings, and one public hearing. Tasks completed to date include additional County Commission meetings, landowner meetings, WNED (Western Nebraska Economic Development) presentation, South Morrill group presentation, and other presentation and meetings outside of the proposed scope. Trihydro anticipates holding six additional conference calls to complete Step 1. For this proposal, we have assumed we would assist with the rezoning process in Sioux County and the Local Government Agency (LGA) approval process. To account for these additional meetings and activities and to cover the out-of-scope work completed for this task, a change order request for this task totals \$54,501.

The tasks necessary to complete Step 1 as described above are further detailed in Attachment A.

Original Scope of Work:	\$ 264,512
<u>Budget Spent to Date:</u>	<u>\$ 161,840</u>
Budget Remaining:	\$ 102,672
<u>Budget Needed to Complete Tasks:</u>	<u>\$ 335,685</u>
Requested Change Order Amount:	\$ 233,012



Ms. Annie Folck, P.E.  
March 3, 2021  
Page 6

We have included a Work Change Order as Attachment B for each Cities' consideration and approval to continue work on Step 1. A Task Order has also been included as Attachment C which will authorize Trihydro to commence Step 2 at the direction of the Cities' project manager. We reviewed our original Step 2 SOW and are not requesting additional funds to complete Step 2. If approved by both Councils, please email an executed copy to [abainer@trihydro.com](mailto:abainer@trihydro.com) and we will commence project work.

### **Schedule**

An updated project schedule is included as Attachment D and provides the anticipated schedule for all activities associated with permitting the landfill. The schedule has been developed in a manner that will allow the Cities to withdraw from their purchase option should any potential permitting issues arise and will require conducting specific tasks in the order described below:

- Task 2 – Land Surveys - The first activity will include the land and topographic surveys included in Task 2. The surveys will be utilized for later tasks.
- Task 7 – Preliminary Conceptual Design – Utilize the land surveys to develop a preliminary design, and further define the property limits (not to exceed 300-acres) the Cities will need to acquire; provide a boundary for the Class III CRI and wildlife surveys; define the access road alignment; and, allow Trihydro to further refine the subsurface investigation prior to commencing fieldwork.
- Task 5 – Archaeological Survey and Threatened and Endangered Species Survey (T&E Surveys) – The surveys associated with Task 5 will be performed within the proposed landfill boundary. The T&E Surveys need to be performed between April 15<sup>th</sup> and May 15<sup>th</sup>. The area surveyed during the T&E surveys will not impact cost, but the CRI will occur after the property limits have been defined in order to maintain a survey area less than 300 acres.
- Task 3 – The conceptual design will be utilized to determine the monitoring wells and geotechnical boreholes location and depth.

Preliminary design will not advance past the 30% design phase until the field investigation is complete and NDEE has reviewed the draft SSI (subsurface investigation) Report. Once NDEE has reviewed the SSI Report and provided feedback, Trihydro will proceed to Step 2 upon written authorization by the Cities' project manager. Please note that some groundwater monitoring activities included in Step 1 will need to occur concurrently with Step 2.

The updated costs as presented above are based on site-specific conditions for the selected landfill location. Trihydro will strive to complete the requested activities as efficiently and cost-effectively as possible and will work closely with the Cities and NDEE to reduce project costs during the permitting process. We look forward to working with the Cities on the next phase of this project and look forward to the future opening of the Western Nebraska Regional Landfill facility.



Ms. Annie Folck, P.E.  
March 3, 2021  
Page 7

If you have any questions or require additional information regarding this proposal, please do not hesitate to contact me at (307) 745-7474.

Sincerely,  
Trihydro Corporation

Travis Evans, P.E.  
Project Manager / Engineering Specialist

Ryan Swanson, P.E.  
Assistant Project Manager / Project Engineer

54Q-001-001

Attachments



**ATTACHMENT A**

**COST ESTIMATE AND ACTIVITIES/ASSUMPTIONS**



## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



	Activity	Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
CO-1	Task 1 Amended Site-Specific Tasks and Assumptions				
	<u>Tasks:</u> - None  <u>Assumptions:</u> - None				
	<u>Out of Scope Items</u> - Evaluated a planning area within 45-mile radius of Cities per Cities direction at kickoff meeting - Created five study areas and identified potential sites/landowners to contact - Land acquisition discussions with Nebraska Board of Educational Lands and Funds (BELF) - Evaluated all state sections in four counties and provided recommendations for nearly 30 sites - Evaluated 4 additional candidate sites (a total of 9 were evaluated)				
		Budget Spent on Out of Scope Items			\$28,228
		Task 1 Proposal Budget			\$11,500
		Task 1 Budget Spent			\$39,728
		Task 1 Budget Spent on Out-of-Scope Items			\$28,228
		Task 1 Budget Remaining			-\$28,228
		Task 1 Budget Needed to Complete			\$0
		Task 1 Change Order Request			\$28,228

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
Original Contract Scope	2. TASK 2 - Site Survey	Technical Specialist 1	\$190	1	\$190
		Professional Level 11	\$173	0	\$0
		Professional Level 10	\$163	0	\$0
		Professional Level 9	\$153	0	\$0
		Professional Level 8	\$141	0	\$0
		Professional Level 7	\$130	0	\$0
		Professional Level 6	\$118	0	\$0
		Professional Level 5	\$110	2	\$220
		Professional Level 4	\$95	0	\$0
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$68	0	\$0
		Administrative 2	\$58	0	\$0
		<b>Labor</b>			<b>\$410</b>
		Equipment	Cost	0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$0</b>
		Baker	Cost	1	\$16,500
		<b>Subcontractors</b>			<b>\$16,500</b>
		<b>Task 2. Subtotal</b>			<b>\$16,910</b>

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
CO-1	Task 2 Amended Site-Specific Tasks and Assumptions				
	Tasks:	Professional Level 8	\$146	0	\$0.00
	- Perform a boundary survey of the two half sections including Highway 71 Right of Way	Professional Level 7	\$131	10	\$1,310.00
	- Establish a minimum of 2 control points (1 along the highway ROW) for future use	Technical Level 4	\$82	0	\$0.00
	- Prepare boundary survey exhibit	Technical Level 3	\$72	8	\$576.00
	- Prepare easement description and exhibit for the access road	Labor			\$1,886.00
	- Prepare and record the Record of Survey exhibit for landfill property boundary and legal description once property is defined for land sale	Equipment	\$0	0	\$0.00
	- Set boundary monuments as identified in Record of Survey	Travel	\$0	0	\$0.00
	- Perform topographic survey to include buildings, surface drainage features, approaches, fences, and utilities as identifiable	Per Diem	\$0	0	\$0.00
	- Stake and survey final locations and elevations for up to 8 monitor wells and 20 geotechnical boreholes	Hotel	\$0	0	\$0.00
	- Conduct project management and coordination with Stakeholders for survey details	Expenses			\$0.00
	Assumptions:	Baker & Associates		1.0	\$22,870.00
	- No property or section corners will be needed to be re-established for a boundary survey. In the event section or property corners need to be reestablished or recorded, a change order will be prepared and executed prior to performing the work.	Subcontractors			\$22,870.00
	- Mapping shall meet NDEE mapping requirements, and tied to a Nebraska State Plane Coordinate System	Task 2 Change Subtotal			\$24,756.00
Out of Scope Items					
- None	Budget Spent on Out of Scope Items			\$0.00	
	Task 2 Proposal Budget			\$16,910	
	Task 2 Budget Spent			\$0	
	Task 2 Budget Spent on Out of Scope Items			\$0	
	Task 2 Budget Remaining			\$16,910	
	Task 2 Budget Needed to Complete			\$24,756	
	Task 2 Change Order Request			\$7,846	

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
Original Contract Scope	3. TASK 3 - Geotechnical Work	Technical Specialist 1	\$190	1	\$190
		Professional Level 11	\$173	0	\$0
		Professional Level 10	\$163	0	\$0
		Professional Level 9	\$153	0	\$0
		Professional Level 8	\$141	4	\$564
		Professional Level 7	\$130	0	\$0
		Professional Level 6	\$118	16	\$1,888
		Professional Level 5	\$110	32	\$3,520
		Professional Level 4	\$95	0	\$0
		Professional Level 3	\$84	42	\$3,528
		Technician Level 3	\$68	2	\$136
		Administrative 2	\$58	2	\$116
		<b>Labor</b>			<b>\$9,942</b>
		Equipment	Cost	4	\$1,800
		Travel	Cost	2	\$2,800
		Per Diem	\$40	4	\$160
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$4,760</b>
		Steamboat	Cost	1	\$12,231
		Laboratory	\$307	40	\$12,280
		Driller	Cost	1	\$46,741
		<b>Subcontractors</b>			<b>\$71,252</b>
		<b>Task 3. Subtotal</b>			<b>\$85,954</b>

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
CO-1	<b>Task 3 Amended Site-Specific Tasks and Assumptions</b>  <b>Tasks:</b> - Prepare site-specific Health and Safety Plan (HASP) for Site - Conduct project management and coordination with Stakeholders and NDEE for Subsurface Investigation (SSI) - Perform SSI and studies to determine whether the site selected meets all Federal, State, and Local permitting requirements - Meet with NDEE and prepare SSI and quarterly groundwater monitoring program Work Plan for their review - Drill up to 12 geotechnical boreholes for site investigation - Install and develop up to 5 groundwater monitoring wells, including any nested wells required - Prepare and submit water well registrations for NDEE - Conduct in- and out-slug testing for up to 3 monitoring wells - Coordinate completion of seismic, stability, and settlement analysis required for permit application (Title 132, Chapter 3) - Prepare report to include SSI data, subsequent analyses, geologic cross-sections, potentiometric surface map, observations, and discussion of site characterization - Perform quarterly groundwater sampling and static water level gauging for one year for up to 5 wells and 4 quality control samples - Submit groundwater samples for analysis of Title 132, Chapter 7, App I and set of standard geochemical parameters - Prepare quarterly letter report to NDEE with monitoring event results to include: description of activities, field forms, site map, potentiometric surface map, lab report, data validation, observations, and future activities  <b>Assumptions:</b> - SSI mobilization from Lusk, Laramie, and/or Sheridan, WY - Fieldwork will take 5 days for boreholes; 11 days for well installation; 2 days for slug testing - Borehole depths will be up to 40 feet (ft); well depths will be up to 170 ft - Wells to be installed in accordance with NDEE Title 178, Chapter 12 - Borehole cuttings may be spread thin on site; development water may be discharged on site - Monitoring wells produce well, and slug tests can be conducted in 2 days for up to 3 wells - Geotech analysis will provide information required for landfill development and aquifer characterization - Equipment costs include water quality meter, water level meter, and/or transducer for well development/testing - Work Plan and final report will require only one round of edits with NDEE - Groundwater monitoring well installation will be conducted by a Cascade using a sonic rig - Geotech borehole installation, sampling, and analysis will be conducted by Inberg-Miller Engineers (IME) - Seismic, stability, and settlement analyses will be conducted by IME - Purge water may be discharged on site - Laboratory will use appropriate methods and detection limits, and provide an EDD in the format specified by Trihydro and NDEE - Standard laboratory turnaround time (10 days) - In the event that commercial carriers are unable to deliver overnight sample shipments within required holding times, or the laboratory received damaged sample containers, the City will be notified, but wells will not be resampled unless the City approves of additional costs - Tier II data validation required; no statistical analysis will be required - Quarterly reports will be short letter-style reports and not require edits by NDEE - Title 132, Chapter 7.004.02A requiring 4 independent samples from each well for first semiannual event, does not apply	Technical Specialist 1	\$201	12	\$4,608.00
		Professional Level 10	\$176	16	\$2,816.00
		Professional Level 9	\$161	2	\$322.00
		Professional Level 7	\$131	309	\$40,479.00
		Professional Level 4	\$94	140	\$13,160.00
		Technical Level 4	\$82	8	\$656.00
		Technical Level 2	\$62	4	\$248.00
		Administrative 2	\$62	12	\$744.00
		<b>Labor</b>			<b>\$63,033.00</b>
		Equipment	\$1,550	1	\$1,550.00
		Mileage	\$0.56	3907	\$2,187.92
		Hotel	\$96	5	\$480.00
		Per Diem	\$45	17	\$765.00
		Miscellaneous	\$165	5	\$825.00
		<b>Expenses</b>			<b>\$5,807.92</b>
		Cascade, Wells	\$83,875	1.0	\$83,875.00
		IME, Boreholes	\$28,000	1.0	\$28,000.00
		IME, Analysis/Report	\$9,000	1.0	\$9,000.00
		Baker, Monitoring	\$11,200	1.0	\$11,200.00
		Laboratory Analysis	\$3,150	4	\$12,600.00
		<b>Subcontractors</b>			<b>\$144,675.00</b>
		<b>Task 3 Change Subtotal</b>			<b>\$213,515.92</b>
		<b>Out of Scope Items</b>			
		- None			
		<b>Budget Spent on Out of Scope Items</b>			<b>\$0</b>
		Task 3 Proposal Budget			\$85,954
		Task 3 Budget Spent			\$0
		Task 3 Budget Spent on Out of Scope Items			\$0
		Task 3 Budget Remaining			\$85,954
		<b>Task 3 Budget Needed to Complete</b>			<b>\$213,516</b>
		<b>Task 3 Change Order Request</b>			<b>\$127,562</b>

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
Original Contract Scope	4. TASK 4 - Surface Drainage Analysis	Technical Specialist 1	\$190	1	\$190
		Professional Level 11	\$173	0	\$0
		Professional Level 10	\$163	0	\$0
		Professional Level 9	\$153	0	\$0
		Professional Level 8	\$141	0	\$0
		Professional Level 7	\$130	0	\$0
		Professional Level 6	\$118	0	\$0
		Professional Level 5	\$110	2	\$220
		Professional Level 4	\$95	0	\$0
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$68	0	\$0
		Administrative 2	\$58	0	\$0
		<b>Labor</b>			<b>\$410</b>
		Equipment	Cost	0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$0</b>
		Steamboat	Cost	1	\$11,636
		<b>Subcontractors</b>			<b>\$11,636</b>
		<b>Task 4. Subtotal</b>			<b>\$12,046</b>



## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
CO-1	Task 4 Amended Site-Specific Tasks and Assumptions				
	<u>Tasks:</u> - None				
	<u>Assumptions:</u> - None				
	<u>Out of Scope Items</u> - None				
		Budget Spent on Out of Scope Items			\$0
		Task 4 Proposal Budget			\$12,046
		Task 4 Budget Spent			\$0
		Task 4 Budget Spent on Out of Scope Items			\$0
		Task 4 Budget Remaining			\$12,046
		Task 4 Budget Needed to Complete			\$12,046
		Task 4 Change Order Request			\$0

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
Original Contract Scope	<b>5. TASK 5 - Archaeological Survey and Threatened and Endangered Species</b>	Technical Specialist 1	\$190	4	\$760
		Professional Level 11	\$173	0	\$0
		Professional Level 10	\$163	0	\$0
		Professional Level 9	\$153	0	\$0
		Professional Level 8	\$141	6	\$846
		Professional Level 7	\$130	0	\$0
		Professional Level 6	\$118	0	\$0
		Professional Level 5	\$110	150	\$16,500
		Professional Level 4	\$95	14	\$1,330
		Professional Level 3	\$84	52	\$4,368
		Technician Level 3	\$68	0	\$0
		Administrative 2	\$58	6	\$348
	<b>Tasks:</b>				
	- Perform an environmental review to meet permitting requirements				
	- Conduct a Class III cultural resources inventory by Metcalf				
	- Provide a threatened and endangered species survey of the proposed site				
	- Conduct an initial background search on state and federally listed species and critical habitats that may occur in Scotts Bluff County				
	- Provide a pedestrian survey to map vegetative types				
	- Determine the presence or absence of critical habitat suitable for listed species				
	- Verify the presence or absence of any listed flora or fauna				
	<b>Assumptions:</b>				
	- Conduct a surface inventory of 250 acres				
	- 6 days of fieldwork with a crew of three archaeologists from Metcalf				
	- Ground surface visibility will be sufficient to preclude the use of subsurface probing as a discovery method				
	- Does not include any costs to cover crop damage				
	- 2 Trihydro biologists, 2 trips, 6 days field work				
	- T&E species surveys to include swift fox, raptors/eagles, migratory birds, incidental species				
	- 1 raptor nest survey event and 1 bird survey event				
	- Swift fox surveys = remote camera trapping and habitat assessment				
	- No T&E plants occur in the area. Vegetation survey limited to vegetation type/habitat mapping and incidental NE Tier 1 plant observations				
	- T&E/vegetation surveys to occur in area approximately 640 acres				
	- No impacts therefore no survey/habitat assessment for river otter				
		<b>Labor</b>			<b>\$24,152</b>
		Equipment	Cost	1	\$1,940
		Travel	Cost	1	\$2,384
		Per Diem	\$45	10	\$450
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$4,774</b>
		Metcalf	Cost	1	\$30,809
		<b>Subcontractors</b>			<b>\$30,809</b>
		<b>Task 5. Subtotal</b>			<b>\$59,735</b>

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
CO-1	<b>Task 5 Amended Site-Specific Tasks and Assumptions</b>  <u><b>Tasks:</b></u> - Conduct a Class III cultural resource inventory (by Metcalf Archaeological Consultants, Inc.) - Conduct a swift fox survey including game camera traps - Submit an Environmental Review request to NGPC - Respond to one round of comments from NGPC or NDEE - Submit Jurisdictional Determination request to the USACE - Conduct project management and coordination with Stakeholders, NDEE, and NGPC  <u><b>Assumptions:</b></u> - Conduct a cultural resource Class III surface inventory over 305 acres - 4 day mobilization with a crew of three from Metcalf - No subsurface testing for National Registry eligibility will be required - NSHS will consider earlier 2020 search valid and will not require a new one - No more than 4 cultural resources will be discovered and documented on site - Ground visibility will be greater than 10% and shovel probes will not be needed - 6 days of wildlife survey field work with a crew of two from Trihydro - Burrowing Owls are not to be studied - Appropriate surveys for the demolition of abandoned buildings is not included (Long-eared bat, asbestos, lead, hazardous waste, etc.) - NDEE/NGPC/NSHPO comments are minor and that documents will require only one set of revisions	Technical Specialist 1	\$201	4	\$804.00
		Professional Level 7	\$131	15	\$1,965.00
		Professional Level 6	\$117	60	\$7,020.00
		Professional Level 4	\$94	0	\$0.00
		Technical Level 3	\$72	16	\$1,152.00
		Administrative 2	\$62	5	\$310.00
		<b>Labor</b>			<b>\$11,251.00</b>
		Equipment	\$350	6	\$2,100.00
		Travel	\$86	7	\$602.00
		Hotel	\$96	12	\$1,152.00
		Per Diem	\$45	10	\$450.00
		Miscellaneous		0	\$0.00
		<b>Expenses</b>			<b>\$4,304.00</b>
		Metcalf	\$20,684	1.0	\$20,684.00
		<b>Subcontractors</b>			<b>\$20,684.00</b>
		<b>Task 5 Change Subtotal</b>			<b>\$36,239.00</b>
	<u><b>Out of Scope Items</b></u> - Conducted threatened and endangered species surveys on three additional sites - Performed Class I CRI	<b>Budget Spent on Out of Scope Items</b>			<b>\$3,641</b>
		Task 5 Proposal Budget			\$59,735
		Task 5 Budget Spent			\$10,922
		Task 5 Budget Spent on Out of Scope Items			\$3,641
		Task 5 Budget Remaining			\$48,813
		<u>Task 5 Budget Needed to Complete</u>			<u>\$36,239</u>
		<b>Task 5 Change Order Request</b>			<b>-\$12,574</b>

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
Original Contract Scope	6. TASK 6 - Seismic Impact Zones	Technical Specialist 1	\$190	1	\$190
		Professional Level 11	\$173	0	\$0
		Professional Level 10	\$163	0	\$0
		Professional Level 9	\$153	0	\$0
		Professional Level 8	\$141	0	\$0
		Professional Level 7	\$130	0	\$0
		Professional Level 6	\$118	0	\$0
		Professional Level 5	\$110	2	\$220
		Professional Level 4	\$95	0	\$0
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$68	0	\$0
		Administrative 2	\$58	0	\$0
		<b>Labor</b>			<b>\$410</b>
		Equipment	Cost	0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$0</b>
		Contour	Cost	1	\$5,940
		<b>Subcontractors</b>			<b>\$5,940</b>
		<b>Task 6. Subtotal</b>			<b>\$6,350</b>

ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
CO-1	Task 6 Amended Site-Specific Tasks and Assumptions				
	<u>Tasks:</u> - None  <u>Assumptions:</u> - Slope stability and seismic survey tasks will be completed within Task 3.				
	<u>Out of Scope Items</u> - None				
		Budget Spent on Out of Scope Items			\$0
		Task 6 Proposal Budget			\$6,350
		Task 6 Budget Spent			\$0
		Task 6 Budget Spent on Out of Scope Items			\$0
		Task 6 Budget Remaining			\$6,350
		Task 6 Budget Needed to Complete			\$0
		Task 6 Change Order Request			-\$6,350

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
Original Contract Scope	7. TASK 7 - Preliminary Conceptual Design	Technical Specialist 1	\$190	16	\$3,040
		Professional Level 11	\$173	0	\$0
		Professional Level 10	\$163	0	\$0
		Professional Level 9	\$153	0	\$0
		Professional Level 8	\$141	4	\$564
		Professional Level 7	\$130	0	\$0
		Professional Level 6	\$118	0	\$0
		Professional Level 5	\$110	100	\$11,000
		Professional Level 4	\$95	0	\$0
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$68	25	\$1,700
		Administrative 2	\$58	2	\$116
		<b>Labor</b>			<b>\$16,420</b>
		Equipment	Cost	1	\$200
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$200</b>
		Steamboat	Cost	1.0	\$15,783
		<b>Subcontractors</b>			<b>\$15,783</b>
		<b>Task 7. Subtotal</b>			<b>\$32,403</b>

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
CO-1	Task 7 Amended Site-Specific Tasks and Assumptions				
	<u>Tasks:</u>	Technical Specialist 1	\$201	4	\$804.00
	- Provide the Stakeholders with a conceptual layout and grading of the landfill and associated structures	Professional Level 10	\$176	24	\$4,224.00
	- Provide a preliminary cost estimate based on the conceptual design	Professional Level 7	\$131	50	\$6,550.00
	- Meet twice with Stakeholders to discuss the conceptual design	Professional Level 5	\$104	40	\$4,160.00
	- Design will be at the 30% and 50% approximate design levels	Professional Level 2	\$73	20	\$1,460.00
	- Provide a preliminary schedule in Microsoft Project or Gantt Formats for discussion purposes	Technical Level 5	\$93	20	\$1,860.00
	- Conduct project management and coordination with Stakeholders and NDEE for conceptual designs	Labor			\$19,058.00
	<u>Assumptions:</u>	Hotel	\$96	2	\$192.00
	- Comments will be incorporated in the final permitting documents	Travel	\$86	4	\$344.00
	- Design will identify conceptual building locations, fence lines, cell geometry, storm water channels, borrow sources, utilities, access roads, liner system requirements, and all other ancillary facilities	Per Diem	\$45	4	\$180.00
	- Develop the designs with a minimum landfill design life of 75 years	Miscellaneous	\$100	1	\$100.00
	- One conceptual design will be presented to the Stakeholders	Expenses			\$816.00
	- One on-site meeting will be conducted to discuss	Task 7 Change Subtotal			\$19,874.00
	- Detailed building design is not required for the permitting phase				
	<u>Out of Scope Items</u>				
	- Prepared four conceptual designs				
	- Prepared ""Solid Waste Management Cost Analysis"" report				
	- Responded to City of Scottsbluff's questions regarding report				
	- Provided detailed project documentation to Scottsbluff's consulting engineer				
	- Prepared preliminary cost estimates for two conceptual landfill designs	Budget Spent on Out of Scope Items			\$37,735
- Cost estimates for transfer alternatives					
	Task 7 Proposal Budget			\$32,403	
	Task 7 Budget Spent			\$37,735	
	Task 7 Budget Spent on Out of Scope Items			\$37,735	
	Task 7 Budget Remaining			-\$5,332	
	Task 7 Budget Needed to Complete			\$19,874	
	Task 7 Change Order Request			\$25,206	

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
Original Contract Scope	8. TASK 8 - Preliminary Cost Estimate	Technical Specialist 1	\$190	1	\$190
		Professional Level 11	\$173	0	\$0
		Professional Level 10	\$163	0	\$0
		Professional Level 9	\$153	0	\$0
		Professional Level 8	\$141	0	\$0
		Professional Level 7	\$130	0	\$0
		Professional Level 6	\$118	0	\$0
		Professional Level 5	\$110	2	\$220
		Professional Level 4	\$95	0	\$0
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$68	0	\$0
		Administrative 2	\$58	0	\$0
		<b>Labor</b>			<b>\$410</b>
		Equipment	Cost	0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$0</b>
		Baker	Cost	1	\$2,200
		Steamboat	Cost	1	\$2,827
		<b>Subcontractors</b>			<b>\$5,027</b>
		<b>Task 8. Subtotal</b>			<b>\$5,437</b>



ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
CO-1	Task 8 Amended Site-Specific Tasks and Assumptions				
	<u>Tasks:</u> - None				
	<u>Assumptions:</u> - Cost estimate will evaluate additional studies required for permitting and additional funding which may be required.				
	<u>Out of Scope Items</u> - Cost estimate for two conceptual landfill designs and transfer alternatives				
	Budget Spent on Out of Scope Items				\$8,594
		Task 8 Proposal Budget			\$5,437
		Task 8 Budget Spent			\$8,594
		Task 8 Budget Spent on Out of Scope Items			\$8,594
		Task 8 Budget Remaining			-\$3,157
		Task 8 Budget Needed to Complete			\$5,437
		Task 8 Change Order Request			\$8,594

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
Original Contract Scope	9. TASK 9 - Preliminary Schedule using MS Project with Gantt Chart	Technical Specialist 1	\$190	2	\$380
		Professional Level 11	\$173	0	\$0
		Professional Level 10	\$163	0	\$0
		Professional Level 9	\$153	0	\$0
		Professional Level 8	\$141	2	\$282
		Professional Level 7	\$130	0	\$0
		Professional Level 6	\$118	0	\$0
		Professional Level 5	\$110	12	\$1,320
		Professional Level 4	\$95	0	\$0
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$68	1	\$68
		Administrative 2	\$58	1	\$58
		<b>Labor</b>			<b>\$2,108</b>
		Equipment	Cost	0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$0</b>
		Steamboat	Cost	1	\$790
		<b>Subcontractors</b>			<b>\$790</b>
		<b>Task 9. Subtotal</b>			<b>\$2,898</b>

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
CO-1	Task 9 Amended Site-Specific Tasks and Assumptions				
	<u>Tasks:</u> - None  <u>Assumptions:</u> - None				
	<u>Out of Scope Items</u> - None				
		Budget Spent on Out of Scope Items			\$0
		Task 9 Proposal Budget			\$2,898
		Task 9 Budget Spent			\$0
		Task 9 Budget Spent on Out of Scope Items			\$0
		Task 9 Budget Remaining			\$2,898
		Task 9 Budget Needed to Complete			\$2,898
		Task 9 Change Order Request			\$0

ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
Original Contract Scope	10. TASK 10 - Meetings	Technical Specialist 1	\$190	40	\$7,600
		Professional Level 11	\$173	0	\$0
		Professional Level 10	\$163	0	\$0
		Professional Level 9	\$153	0	\$0
		Professional Level 8	\$141	45	\$6,345
		Professional Level 7	\$130	0	\$0
		Professional Level 6	\$118	0	\$0
		Professional Level 5	\$110	12	\$1,320
		<b>Labor</b>			<b>\$15,265</b>
		Equipment	Cost	0	\$0
		Travel	Cost	3	\$580
		Per Diem	\$45	3	\$135
		Miscellaneous	Cost	3	\$100
		<b>Expenses</b>			<b>\$815</b>
		Baker	Cost	1	\$4,400
		Steamboat	Cost	1	\$10,800
		<b>Subcontractors</b>			<b>\$15,200</b>
		<b>Task 10. Subtotal</b>			<b>\$31,280</b>

## ATTACHMENT A. ACTIVITIES AND ASSUMPTIONS



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal		
CO-1	Task 10 Amended Site-Specific Tasks and Assumptions  <u>Tasks:</u> - Attend two onsite meetings - Participate in monthly progress meetings via conference calls - Assist with local government agency siting approval process in Sioux County - Assist with Sioux County rezone process - Prepare two council updates - Notify landowners within 2-mile radius of proposed landfill site - Publish public notice in Sioux County newspaper  <u>Assumptions:</u> - Up to six monthly conference calls will be held - Council updates will be provided as a memorandum - LGA approval will be granted and not contested - LGA application will be prepared in accordance with Sections 13-1701 thru 13-1714 of the NAC - Public notice will be direct billed to the Cities - Landowners will be notified via certified mail	Technical Specialist 1	\$201	8	\$1,608		
		Professional Level 10	\$176	33	\$5,808		
		Professional Level 7	\$131	48	\$6,288		
		Professional Level 3	\$84	12	\$1,008		
		Technician Level 3	\$72	0	\$0		
		Administrative 2	\$62	16	\$992		
		Labor				\$15,704	
		Equipment	Cost	0	\$0		
		Travel	Cost	3	\$580		
		Per Diem	\$45	3	\$135		
		Miscellaneous	Cost	3	\$100		
		Expenses				\$815	
		Baker	Cost	1	\$4,400		
		Subcontractors				\$4,400	
		Task CO-1 Subtotal				\$20,919	
		Out of Scope Items	- Three County Commission meetings - Three landowner meetings - WNED meeting/presentation - 11 additional progress meetings	Budget Spent on Out of Scope Items			\$35,331
				Task 10 Proposal Budget			\$31,280
				Task 10 Budget Spent			\$64,862
				Task 10 Budget Spent on Out of Scope Items			\$35,331
Task 10 Budget Remaining				-\$33,582			
Task 10 Budget Needed to Complete				\$20,919			
		Task 10 Change Order Request			\$54,501		

**ATTACHMENT B**  
**WORK CHANGE ORDER**



**TRIHYDRO CORPORATION – CITIES OF SCOTTSBLUFF AND GERING, NEBRASKA  
ENGINEERING AND CONSULTING SERVICES – GENERAL BASIC AGREEMENT  
WORK CHANGE ORDER**

Work Order No.: 18-134WO-E

Date: March 3, 2021

Job No.: 54Q-001-001

Location of Project: Gering, Nebraska

Contract No.: Engineering and Consulting Services General Basic Agreement between Trihydro Corporation and Cities of Scottsbluff and Gering, Nebraska, 18-017BA-E.

Original Specification: Trihydro will provide technical landfill services for the City of Scottsbluff and City of Gering. Work to be performed in accordance with the Statement of Qualifications and Technical Proposal dated February 06, 2018. Trihydro will receive a written Notice to Proceed from the Cities of Gering and Scottsbluff, Nebraska prior to commencing work on each step of the project. Trihydro is only authorized to commence Step 1 at this time, according to the Schedule below. The parties agree to proceed, past Step 1, by individual steps, one at a time. Proceeding to additional steps must be agreed to by the parties in writing.

Change Order No. 3: Trihydro will complete tasks required to permit the Western Nebraska Regional Landfill at the location recently selected by the Cities. The following activities are covered under this change order: complete site inventories for wildlife (i.e., swift fox) and cultural resources; conduct site survey, prepare landfill conceptual design, conduct subsurface investigation (including Work Plan, investigation, sample analysis, and reporting), and conduct one year of groundwater monitoring and reporting. Work to be performed in accordance with the Proposal dated March 3, 2021. Increase the budget amount by \$233,012.00 for a total not to exceed amount of \$497,524.00.

Additional Cost (if any): \$233,012.00

Electronic signatures will be accepted to execute this Work Change Order.

**TRIHYDRO CORPORATION**

BY: Kurt Tuggle  
Kurt Tuggle, P.E.

TITLE: President/CEO

**CITY OF SCOTTSBLUFF, NEBRASKA**

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

**CITY OF GERING, NEBRASKA**

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

**ATTACHMENT C**

**TASK ORDER**





**TRIHYDRO CORPORATION – CITIES OF SCOTTSBLUFF AND GERING, NEBRASKA  
ENGINEERING AND CONSULTING SERVICES – GENERAL BASIC AGREEMENT  
WORK ORDER**

Work Order No.: 21-015WO-E

Date: March 3, 2021

Job No.: 54Q-001-002

Location of Project: Gering, Nebraska

Contract No.: Engineering and Consulting Services General Basic Agreement between Trihydro Corporation and Cities of Scottsbluff and Gering, Nebraska, 18-017BA-E.

Services to be Performed: Trihydro will provide technical landfill services for the City of Scottsbluff and City of Gering. Work to be performed in accordance with Step 2 of the Statement of Qualifications and Technical Proposal dated February 6, 2018; revised May 7, 2018. Work will be associated specifically with the candidate site located in the south half of Section 19 and the north half of Section 30 in Township 25 North, Range 54 West, Sioux County, Nebraska. Commencement of Step 2 must be agreed to by the Cities' project managers in writing.

Schedule - Commencement Date: September 7, 2021

Completion Date: February 1, 2023 (Step 2 only)

Trihydro's Project Manager: Travis Evans

Client's Project Manager(s): Annie Folck and Mark Bohl

Attachments:           A.       Cost Estimate and Schedule of Charges (Step 2 Only)

Other Information: Costs shall be on a time and materials basis not to exceed \$186,296.00 for Step 2, without prior written authorization from the Cities of Scottsbluff and Gering, Nebraska.

This WORK ORDER is made and entered into pursuant to that certain ENGINEERING AND CONSULTING SERVICES – GENERAL BASIC AGREEMENT, by and between TRIHYDRO CORPORATION and CITIES OF SCOTTSBLUFF AND GERING, NEBRASKA, 18-017BA-E, dated September 10, 2018, the terms, conditions, and provisions whereof are hereby incorporated herein and made a part hereof.

Electronic signatures will be accepted to execute this Work Order.

**TRIHYDRO CORPORATION**

BY: Kurt V. Tuggle  
Kurt V. Tuggle

TITLE: President/CEO

**CITY OF SCOTTSBLUFF, NEBRASKA**

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

**CITY OF GERING, NEBRASKA**

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_



**ATTACHMENT A**

**COST ESTIMATE AND SCHEDULE OF CHARGES (STEP 2 ONLY)**

Page 35 / 46

Page 36 / 46



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
3.	<b>TASK 3 - Groundwater and Gas Monitoring Plans</b> - Develop groundwater and gas monitoring plans  <u>Assumptions:</u> - Plans will be developed as to meet the requirements of NDEQ - Utilize monitoring requirements outlined in RCRA Subpart D part 239 - Wells will be installed in accordance with NDEQ water well requirements and statutes (NAC Title 178, Chapter 12)	Technical Specialist 1	\$201	12	\$2,412
		Professional Level 11	\$192	0	\$0
		Professional Level 10	\$176	0	\$0
		Professional Level 9	\$161	0	\$0
		Professional Level 8	\$146	35	\$5,110
		Professional Level 7	\$131	0	\$0
		Professional Level 6	\$117	0	\$0
		Professional Level 5	\$104	90	\$9,360
		Professional Level 4	\$94	45	\$4,230
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$72	25	\$1,800
		Administrative 2	\$62	4	\$248
		<b>Labor</b>			<b>\$23,160</b>
		Equipment	Cost	0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	1	\$200
		<b>Expenses</b>			<b>\$200</b>
		Other	Cost	0	\$0
		<b>Subcontractors</b>			<b>\$0</b>
		<b>Task 3. Subtotal</b>			<b>\$23,360</b>



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
4.	<b>TASK 4 - Closure Plan</b> - Prepare a Closure/Post-Closure Plan for the landfill - Prepare financial assurance estimates for closure and post-closure closure assessments - Assist in determining funding mechanisms to be used for financial assurance  <u>Assumptions:</u> - Plans will be developed as to meet the requirements of NDEQ - Provide a proposed final cover design with a permeability of less than 1x10-5 cm/sec and will minimize infiltration	Technical Specialist 1	\$201	8	\$1,608
		Professional Level 11	\$192	0	\$0
		Professional Level 10	\$176	0	\$0
		Professional Level 9	\$161	0	\$0
		Professional Level 8	\$146	4	\$584
		Professional Level 7	\$131	0	\$0
		Professional Level 6	\$117	0	\$0
		Professional Level 5	\$104	45	\$4,680
		Professional Level 4	\$94	20	\$1,880
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$72	10	\$720
		Administrative 2	\$62	2	\$124
		<b>Labor</b>			<b>\$9,596</b>
		Equipment	Cost	0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$0</b>
		Steamboat	Cost	1	\$11,143
		<b>Subcontractors</b>			<b>\$11,143</b>
		<b>Task 4. Subtotal</b>			<b>\$20,739</b>



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
5.	<b>TASK 5 - Operations Plan</b> - Develop operations plan to address specific requirements of NDEQ - Prepare and organize plan to be included in the NDEQ permit application	Technical Specialist 1	\$201	16	\$3,216
		Professional Level 11	\$192	0	\$0
		Professional Level 10	\$176	0	\$0
		Professional Level 9	\$161	0	\$0
		Professional Level 8	\$146	20	\$2,920
		Professional Level 7	\$131	0	\$0
		Professional Level 6	\$117	0	\$0
		Professional Level 5	\$104	45	\$4,680
		Professional Level 4	\$94	18	\$1,692
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$72	12	\$864
		Administrative 2	\$62	2	\$124
		<b>Labor</b>			<b>\$13,496</b>
		Equipment	Cost	0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	1	\$200
		<b>Expenses</b>			<b>\$200</b>
		Steamboat	Cost	0	\$14,452
		<b>Subcontractors</b>			<b>\$14,452</b>
		<b>Task 5. Subtotal</b>			<b>\$28,148</b>



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
6.	<b>TASK 6 - Assemble Permit Application Documents</b>	Technical Specialist 1	\$201	4	\$804
		Professional Level 11	\$192	0	\$0
	- Assemble the permit application documents	Professional Level 10	\$176	0	\$0
		Professional Level 9	\$161	0	\$0
		Professional Level 8	\$146	0	\$0
		Professional Level 7	\$131	0	\$0
		Professional Level 6	\$117	0	\$0
		Professional Level 5	\$104	10	\$1,040
		Professional Level 4	\$94	10	\$940
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$72	4	\$288
		Administrative 2	\$62	10	\$620
		<b>Labor</b>			<b>\$3,692</b>
		Equipment	Cost	0	\$0
		Travel	Cost	0	\$0
		Per Diem	\$0	0	\$0
		Miscellaneous	Cost	0	\$0
		<b>Expenses</b>			<b>\$0</b>
		Steamboat	Cost	0	\$3,263
		<b>Subcontractors</b>			<b>\$3,263</b>
		NDEQ Permit Application Fee	Cost	0	\$15,000
		<b>Permitting</b>			<b>\$15,000</b>
		<b>Task 6. Subtotal</b>			<b>\$21,955</b>





Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
7.	TASK 7 - Public Hearings	Technical Specialist 1	\$201	8	\$1,608
		Professional Level 11	\$192	0	\$0
	- Prepare for and conduct public hearings for the landfill permit	Professional Level 10	\$176	0	\$0
		Professional Level 9	\$161	0	\$0
		Professional Level 8	\$146	12	\$1,752
		Professional Level 7	\$131	0	\$0
		Professional Level 6	\$117	0	\$0
		Professional Level 5	\$104	12	\$1,248
		Professional Level 4	\$94	0	\$0
		Professional Level 3	\$84	20	\$1,680
		Technician Level 3	\$72	20	\$1,440
		Administrative 2	\$62	8	\$0
		Labor			\$7,728
		Equipment	Cost	0	\$0
		Travel	Cost	2	\$350
		Per Diem	\$45	2	\$90
		Miscellaneous	\$2	1	\$2
		Expenses			\$442
		Baker	Cost	1	\$3,300
		Steamboat	Cost	1	\$12,661
		Subcontractors			\$15,961
		Task 7. Subtotal			\$24,131



Activity		Schedule of Charges	Hourly Rate or Charge	Hours or Unit Estimate	Subtotal
8.	<b>TASK 8 - Meetings</b> - Meet with the Owner, Community, and others as necessary throughout the project - Address any concerns and issues that may have arisen during Step 2  <u>Assumptions:</u> - 6 monthly progress meetings will be held via conference call during Step 2 - 2 on-site project meetings, 6 monthly conference calls with Steamboat Technical Services	Technical Specialist 1	\$201	40	\$8,040
		Professional Level 11	\$192	0	\$0
		Professional Level 10	\$176	0	\$0
		Professional Level 9	\$161	0	\$0
		Professional Level 8	\$146	45	\$6,570
		Professional Level 7	\$131	0	\$0
		Professional Level 6	\$117	0	\$0
		Professional Level 5	\$104	12	\$1,248
		Professional Level 4	\$94	0	\$0
		Professional Level 3	\$84	0	\$0
		Technician Level 3	\$72	0	\$0
		Administrative 2	\$62	0	\$0
		<b>Labor</b>			<b>\$15,858</b>
		Equipment	Cost	0	\$0
		Travel	Cost	3	\$580
		Per Diem	\$0	3	\$0
		Miscellaneous	Cost	3	\$100
		<b>Expenses</b>			<b>\$680</b>
		Baker	Cost	1	\$5,500
		Steamboat	Cost	1	\$10,248
		<b>Subcontractors</b>			<b>\$15,748</b>
		<b>Task 8. Subtotal</b>			<b>\$32,286</b>

**ATTACHMENT D**  
**PROJECT SCHEDULE**

ATTACHMENT E. UPDATED PROJECT SCHEDULE WNRLF, SIOUX COUNTY, NEBRASKA																									
ID	Task Number	Task Name	Duration	Start	% Complete	Finish	2022				2023														
							Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4								
1		STEP 1	974 days	Fri 10/5/18	34%	Wed 6/29/22																			
2	Task 1	Preliminary Geotechnical Investigations	476 days	Fri 10/5/18	100%	Fri 7/31/20																			
3	Task 2	Site Survey	86 days	Mon 4/12/21	0%	Mon 8/9/21																			
4		Boundary and Topographic Survey	10 days	Mon 4/12/21	0%	Fri 4/23/21																			
5		Borehole and GWM Well Staking	2 days	Tue 6/1/21	0%	Wed 6/2/21																			
6		GWM Well As-Built	1 day	Mon 8/9/21	0%	Mon 8/9/21																			
7	Task 3	Geotechnical Work	288 days	Mon 5/24/21	0%	Wed 6/29/22																			
8		NDEE Meeting	1 day	Mon 5/24/21	0%	Mon 5/24/21	◆ 5/24																		
9		SSI Work Plan Preparation	10 days	Tue 5/25/21	0%	Mon 6/7/21																			
10		NDEE SSI Work Plan Review	14 days	Tue 6/8/21	0%	Fri 6/25/21																			
11		Subsurface Investigation Field Activities	25 days	Mon 6/28/21	0%	Fri 7/30/21																			
12		SSI Laboratory Analysis	10 days	Mon 8/2/21	0%	Fri 8/13/21																			
13		SSI Report Preparation	15 days	Mon 8/16/21	0%	Fri 9/3/21																			
14		NDEE SSI Report Review	20 days	Tue 9/7/21	0%	Mon 10/4/21																			
15		Monitoring Event 1	23 days	Tue 8/31/21	0%	Thu 9/30/21																			
16		Monitoring Event 2	65 days	Fri 10/1/21	0%	Thu 12/30/21																			
17		Monitoring Event 3	64 days	Fri 12/31/21	0%	Wed 3/30/22																			
18		Monitoring Event 4	65 days	Thu 3/31/22	0%	Wed 6/29/22																			
19	Task 4	Surface Drainage Analysis	117 days	Mon 5/10/21	0%	Tue 10/19/21																			
20	Task 5	Archaeological Survey and Threatened and Endangered Species	30 days	Mon 5/10/21	6%	Fri 6/18/21																			
21		Class III Cultural Resources Inventory	10 days	Mon 5/10/21	0%	Fri 5/21/21																			
22		Threatened and Endangered Species	10 days	Mon 5/10/21	25%	Fri 5/21/21																			
23		NDGP Environmental Review	20 days	Mon 5/24/21	0%	Fri 6/18/21																			
24	Task 6	Seismic Impact Zones (Included in Task 3)	10 days	Wed 7/28/21	0%	Tue 8/10/21																			
25	Task 7	Preliminary Conceptual Design	127 days	Mon 4/26/21	0%	Tue 10/19/21																			
Project: WNRLF Date: Mon 3/1/21		Task	<div></div>	Inactive Task	<div></div>	Manual Summary Rollup	<div></div>	External Milestone	<div></div>	Progress	<div></div>														
		Split	<div></div>	Inactive Milestone	<div></div>	Manual Summary	<div></div>	Deadline	<div></div>	Manual Progress	<div></div>														
		Milestone	<div></div>	Inactive Summary	<div></div>	Start-only	<div></div>	Baseline	<div></div>	Slippage	<div></div>														
		Summary	<div></div>	Manual Task	<div></div>	Finish-only	<div></div>	Baseline Milestone	<div></div>																
		Project Summary	<div></div>	Duration-only	<div></div>	External Tasks	<div></div>	Baseline Summary	<div></div>																
Page 1																									

ATTACHMENT E. UPDATED PROJECT SCHEDULE  
WNRLF, SIOUX COUNTY, NEBRASKA

ID	Task Number	Task Name	Duration	Start	% Complete	Finish	<div><div><div>Qtr 2</div><div>Qtr 3</div><div>Qtr 4</div><div>2022</div><div>Qtr 1</div><div>Qtr 2</div><div>Qtr 3</div><div>Qtr 4</div><div>2023</div><div>Qtr 1</div><div>Qtr 2</div><div>Qtr 3</div><div>Qtr 4</div></div></div>											
26		30% Preliminary Design	20 days	Mon 4/26/21	0%	Fri 5/21/21	<div><div></div></div>											
27		30% Design Review Meeting	1 day	Mon 5/24/21	0%	Mon 5/24/21	<div><div></div><div>5/24</div></div>											
28		50% Preliminary Design	33 days	Wed 9/1/21	0%	Fri 10/15/21	<div><div></div></div>											
29		50% Design Review Meeting	1 day	Tue 10/19/21	0%	Tue 10/19/21	<div><div></div><div>10/19</div></div>											
30	Task 8	Preliminary Cost Estimate	10 days	Fri 10/1/21	0%	Thu 10/14/21	<div><div></div></div>											
31	Task 9	Preliminary Schedule using MS Project with Gantt Chart	323 days	Mon 4/5/21	0%	Wed 6/29/22	<div><div></div></div>											
32	Task 10	Meetings	101 days	Mon 4/5/21	0%	Mon 8/23/21	<div><div></div></div>											
33		Sioux County Rezone and LGA Siting Approval Process	40 days	Tue 6/1/21	0%	Mon 7/26/21	<div><div></div></div>											
34		Progress Meeting 1	1 day	Mon 4/5/21	0%	Mon 4/5/21	<div><div></div><div>4/5</div></div>											
35		Progress Meeting 2	1 day	Wed 5/5/21	0%	Wed 5/5/21	<div><div></div><div>5/5</div></div>											
36		Progress Meeting 3	1 day	Tue 6/15/21	0%	Tue 6/15/21	<div><div></div><div>6/15</div></div>											
37		Progress Meeting 4	1 day	Mon 8/23/21	0%	Mon 8/23/21	<div><div></div><div>8/23</div></div>											
38		STEP 2	367 days?	Tue 9/7/21	0%	Wed 2/1/23	<div><div></div></div>											
39	Task 1	Permit Drawings	60 days	Tue 9/7/21	0%	Mon 11/29/21	<div><div></div></div>											
40	Task 2	Modeling and Analysis	60 days	Tue 9/7/21	0%	Mon 11/29/21	<div><div></div></div>											
41	Task 3	Groundwater and Gas Monitoring Plan	60 days	Tue 9/7/21	0%	Mon 11/29/21	<div><div></div></div>											
42	Task 4	Closure Plan	60 days	Tue 9/7/21	0%	Mon 11/29/21	<div><div></div></div>											
43	Task 5	Operations Plan	60 days	Tue 9/7/21	0%	Mon 11/29/21	<div><div></div></div>											
44	Task 6	Assemble Permit Application Documents	4 days	Tue 11/30/21	0%	Fri 12/3/21	<div><div></div></div>											
45		Cities Review Permit Application	10 days	Mon 12/6/21	0%	Fri 12/17/21	<div><div></div></div>											
46		Finalize Permit Application Submittal	15 days	Mon 12/20/21	0%	Fri 1/7/22	<div><div></div></div>											
47		Submit Permit Application	1 day?	Mon 1/10/22	0%	Mon 1/10/22	<div><div></div><div>1/10</div></div>											
48		NDEE Review Process	130 days	Tue 1/11/22	0%	Mon 7/11/22	<div><div></div></div>											
49		Respond to NDEE Comments	20 days	Tue 7/12/22	0%	Mon 8/8/22	<div><div></div></div>											
50		NDEE Review Process	40 days	Tue 8/9/22	0%	Mon 10/3/22	<div><div></div></div>											
51		Draft Permit Issued	1 day?	Tue 10/4/22	0%	Tue 10/4/22	<div><div></div></div>											
52		Public Notice Period	25 days	Wed 10/5/22	0%	Tue 11/8/22	<div><div></div></div>											
53	Task 7	Public Hearing - Contingency	60 days	Tue 11/8/22	0%	Mon 1/30/23	<div><div></div></div>											

Project: WNRLF  
Date: Mon 3/1/21

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Baseline

Baseline Milestone














Baseline Summary

Progress

Manual Progress

Slippage

ATTACHMENT E. UPDATED PROJECT SCHEDULE  
WNRLF, SIOUX COUNTY, NEBRASKA

ID	Task Number	Task Name	Duration	Start	% Complete	Finish	2022				2023							
							Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	
54	Task 8	Permit Issuance	1 day?	Wed 2/1/23	0%	Wed 2/1/23												
55		Meetings	57 days	Mon 9/13/21	0%	Tue 11/30/21												
56		NDEE Kickoff Meeting	1 day	Tue 9/7/21	0%	Tue 9/7/21												
57		30% Progress Meeting	0 days	Mon 10/4/21	0%	Mon 10/4/21												
58		50% Progress Meeting	0 days	Mon 11/1/21	0%	Mon 11/1/21												
59		75% Progress Meeting	0 days	Mon 11/15/21	0%	Mon 11/15/21												
60		90% Progress Meeting	0 days	Tue 11/30/21	0%	Tue 11/30/21												
61		STEP 3	223 days	Mon 2/6/23	0%	Wed 12/13/23												
62	Task 1	Final Design	40 days	Mon 2/6/23	0%	Fri 3/31/23												
63	Task 2	Final Cost Estimate	10 days	Mon 3/20/23	0%	Fri 3/31/23												
64	Task 3	Construction Bidding Services	30 days	Mon 4/3/23	0%	Fri 5/12/23												
65	Task 4	Construction Inspection Services	153 days	Mon 5/15/23	0%	Wed 12/13/23												
66	Task 1	Project Schedule	703 days	Mon 4/5/21	0%	Wed 12/13/23												

Project: WNRLF  
Date: Mon 3/1/21

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Baseline

Baseline Milestone

Baseline Summary

Progress

Manual Progress

Slippage