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*Approved  
5-16-24*

**Supplemental Task Order  
Balance of 2024 Services  
Former Town of Newton Gravel Pit  
AECOM Project No. 60135471 (82518)**

**A. Purpose of Task Order**

AECOM Technical Services, Inc. (AECOM) is to provide consulting and subcontractor services for the balance of the 2024 calendar year for the Former Town of Newton Gravel Pit project. AECOM proposes to perform these services as a supplemental task order under the terms of our Consulting Agreement authorized by the City of Manitowoc (City) Common Council on November 23, 2009. These costs will be tracked and invoiced under AECOM's current Project No. 60135471.

**B. Scope of Services**

The proposed scope of services is limited to the summarized tasks below followed by more detailed descriptions of individual tasks:

Balance of 2024 Annual Operating Budget

- Project Management
- June VOC Potable Well Sampling
- November VOC Potable Well Sampling
- Groundwater Treatment System (pond) Operation & Maintenance

2024 Data Gap and VOC Conceptual Site Model

- Project Management
- Investigation of Five Existing Potable Wells
- Data Gap Plume Delineation Investigation with VOC CSM report

**Balance of 2024 Annual Operating Budget**

Project Management

The Newton Pit Project Team (City personnel, WDNR personnel, outside counsel, the other Responsible Party, and the AECOM project manager) have periodic meetings. Most meetings are conference calls. Periodically, the City Team (City personnel and AECOM project manager) have project update and/or preparation meetings prior to conference calls with outside parties.

Health & Safety Plan Update:

AECOM will prepare an OSHA required site-specific Health and Safety Plan (HASP) update to cover the environmental field activities of AECOM staff.

Cost Recovery:

Included in this task is time to provide technical support to the City and Mr. Ned Witte, Godfrey & Kahn S.C., for Cost Recovery activities.

WDNR Liaison:

AECOM will provide correspondence with Mr. Tauren Beggs, WDNR Project Manager, to define scope of work along with other technical support as determined by the City Team.

**Water Main Support:**

AECOM will provide technical environmental support to the City for Phase 2 and 3 of the water main extension project.

**June VOC Potable Well Sampling**

As part of the semi-annual potable well sampling activities for 2024, AECOM will sample an estimated total of 82 potable wells in June. The specific wells to be sampled will be determined by the Updated Potable Well Monitoring Work Plan. The scope of services for the sampling event is expected to include:

- Notification to the potable well owners to schedule the sampling (to be conducted by the City) and coordination between AECOM, the City, and owners to determine specific sampling times for an AECOM field technician to sample the private wells.
- Collection of VOC potable well water samples and quality control samples. The VOC quality control samples will include field duplicate samples. The number of quality control samples will be determined by AECOM field personnel.
- Submit an estimated 82 to 90 samples, including quality control samples, to a Wisconsin Administrative Code (WAC) Chapter NR 149 certified laboratory for analyses of VOCs (EPA Method SW 8260B).
- AECOM will assist the City with reporting the individual sampling results to both the WDNR and potable well owners. A potable well sampling letter report will be submitted to the WDNR by AECOM. The letter report will include a written summary of the sampling event, summarized laboratory results in tabular form, a figure showing the results, and copies of laboratory reports. Well owner notification of analytical results will be performed by the City and is expected to include a cover letter explaining the results with an attached copy of the well-specific laboratory report. The WDNR will be copied on the well owner reporting.
- The proposed scope of services does not include confirmation potable well water sampling and if a new/replacement potable well is installed at a residence with an impacted well. These services will be provided under a separate cover if potable well replacement activities take place.
- If sampling results indicate that updates should be made to the number of Target Zone or Sentinel Zone wells (as provided for in the Updated Potable Well Monitoring Work Plan), those changes will be reflected in the number of potable wells sampled during subsequent sampling events.
- Laboratory subcontractor costs and AECOM expenses are estimates. Final costs will be based on invoicing.

**November VOC Potable Well Sampling**

As part of the semi-annual potable well sampling activities for 2024, AECOM will sample an estimated total of 14 potable wells in November. The specific wells to be sampled will be determined by the Updated Potable Well Monitoring Work Plan. The scope of services for the sampling event is expected to include:

- Notification to the potable well owners to schedule the sampling (to be conducted by the City) and coordination between AECOM, the City, and owners to determine specific sampling times for an AECOM field technician to sample the private wells.
- Collection of VOC potable well water samples and quality control samples. The VOC quality control samples will include field duplicate and matrix spike/matrix spike duplicate samples. The number of quality control samples will be determined by AECOM field personnel.
- Submit an estimated 14 to 20 samples, including quality control samples, to a Wisconsin Administrative Code (WAC) Chapter NR 149 certified laboratory for analyses of VOCs (EPA Method SW 8260B).
- AECOM will assist the City with reporting the individual sampling results to both the WDNR and potable well owners. A potable well sampling letter report will be submitted to the WDNR by AECOM. The letter report will include a written summary of the sampling event, summarized laboratory results in tabular form, a figure showing the results, and copies of laboratory reports.

Well owner notification of analytical results will be performed by the City and is expected to include a cover letter explaining the results with an attached copy of the well-specific laboratory report. The WDNR will be copied on the well owner reporting.

- The proposed scope of services does not include confirmation potable well water sampling and if a new/replacement potable well is installed at a residence with an impacted well. These services will be provided under a separate cover if potable well replacement activities take place.
- If sampling results indicate that updates should be made to the number of Target Zone or Sentinel Zone wells (as provided for in the Updated Potable Well Monitoring Work Plan), those changes will be reflected in the number of potable wells sampled during subsequent sampling events.
- Laboratory subcontractor costs and AECOM expenses are estimates. Final costs will be based on invoicing.

#### Groundwater Treatment System (pond) Operation & Maintenance

Operation & Maintenance (O&M) activities for the groundwater treatment system (i.e., Treatment Pond) include working with City staff for pond VOC sampling and preparing an O&M report. For budgeting purposes, O&M activities began in March (pre-ice out) and will be performed for the remainder of 2024.

- Wisconsin Pollutant Discharge Elimination System (WPDES) Discharge Sampling: In accordance with WPDES discharge permit requirements, AECOM will assist the City with pre-discharge monitoring of the pond surface water. The work is anticipated to include:
  - Pre-discharge surface water sampling on a monthly basis.
  - Compile and report the data to the WDNR in a WPDES monitoring report.
  - Laboratory subcontractor costs and AECOM expenses are estimates. Final costs will be based on invoicing.

#### 2024 Data Gap and VOC Conceptual Site Model

The proposed scope of work presented below is preliminary. The final scope of work and budget will depend upon agreement between both Responsible Parties (RPs) and review by the Wisconsin Department of Natural Resources (WDNR).

#### Project Management

AECOM will provide project management activities for the Data Gap and VOC Conceptual Site Model (CSM) work to include, but not limited to, right-of-entry communications with home/property owners, subcontractor management, and City team correspondence.

AECOM will also update research previously conducted for inclusion into the CSM, including:

- Review WDNR BRRTS information of the area of interest for potential sites north of Viebahn Street from Interstate I-43 east to 10th Street. Data review will also include several BRRTS sites south of Viebahn.
- Review available Well Construction Reports (WCRs) for the area of interest.
- Review of the WDNR landfill (GEMS) database for the area of interest.

The researched information will be incorporated into the CSM report to understand if there are any alternative potential source areas contributing to the VOC groundwater plume.

**Investigation of Five Existing Potable Wells**

AECOM proposes to conduct field measurements of five existing potable wells of interest. These wells are located at 3224, 3312, 3322, 3412, 3422 CTH CR. The anticipated scope is as follows:

- Negotiate right-of-entry with each homeowner. AECOM will assist the City with these negotiations. AECOM planned for one on-site meeting for these negotiations.
- AECOM will work with the City to hire a qualified well driller to remove well water pumps from the potable wells and measure the total depth of the wells. AECOM has budgeted for the field measurement of five potable wells as follows:
  - Labor to remove well pump, measure well depth, static water depth and well casing depth. Reinstall well pump and flush the well. Return to test for bacteria, nitrates and arsenic per DNR code.
  - Misc repairs for any issues encountered while removing and reinstalling the well pump, i.e., rotten fittings, pipe, pump or bad wiring, excessive mineral buildup/well blockage.
  - Misc submersible well pump replacement including all necessary materials, if needed.

Please note; Any unforeseen problems encountered while performing the work to be invoiced by the subcontractor on a time and material basis. Any well code violations will need to be addressed and estimated separately at time of work. Well access issues may also incur an additional cost.

The deliverable for this work will be the measured well depths for the five wells to be investigated.

**Data Gap Plume Delineation Investigation with VOC CSM report**

To further the delineation of the VOC groundwater plume in the vicinity of CTH CR and Viebahn Street and north of Viebahn Street up to five sets of nested groundwater monitoring wells will be installed. It is anticipated a total of 20 wells will be installed. Each well nest will include four wells consisting of one water table well, two unconsolidated piezometers and one bedrock piezometer.

- Prepare a Well Installation and Monitoring Work Plan for submittal to the WDNR.
- Negotiate right-of-entry with each property owner. AECOM will assist the City with these negotiations. AECOM planned for one on-site meeting for these negotiations.
- Manage utility location services.
- AECOM assumes twenty-four days of field work for the installation of the wells.
- Manage field installation issues.
- Each well nest will be comprised of four wells including a water table well and three piezometers at approximate depths of 20, 50, 90, and 120 feet below ground surface. The deepest piezometer will be completed approximately 20 feet below the top of bedrock.
- Investigation derived waste, i.e. soil cuttings from the borings, are assumed to be uncontaminated and will be disposed of at the Gravel Pit site.
- Each of the newly installed wells will be developed and sampled prior to incorporating into the annual site-wide monitoring event. Development and sampling purge water will be transported to and disposed of at the Newton Pit Groundwater Treatment Pond.
- Laboratory analysis of 20 groundwater samples by a WAC Chapter NR 149 certified laboratory for analyses of VOCs.
- Survey the location of each newly-installed well (X and Y coordinates), as well as top of casing elevation.
- AECOM will complete boring logs and well construction and development documentation for each well (WDNR Forms 4400-122 and 4400-113A and 113B).
- AECOM will assist the City with reporting preliminary sampling results to the WDNR.
- Laboratory and drilling subcontractor costs are estimates. Final subcontractor costs will be determined through formal bids and invoiced accordingly.

- A Conceptual Site Model (CSM) report will be completed. The CSM will include data gap investigation methods and groundwater sampling results, discussions about VOC on-site source areas, and the downgradient VOC groundwater plume delineation. Research information will be incorporated into the CSM.

### C. Terms & Conditions

AECOM proposes to perform these services as a supplemental task order under the terms of our Consulting Agreement authorized by the City of Manitowoc Common Council on November 23, 2009, and as modified by negotiation for 2024. In summary, the terms and conditions have been modified as follows:

- labor rates based on a 2.8 direct labor multiplier (DLX).
- 0% markup on typical ODCs, rental equipment, and laboratory fees.
- 2.5% markup on high-risk non-typical/larger subcontractor fees.

The new rates will take effect June 1, 2024, and AECOM will hold the rates for a period of three years (through May 31, 2027), with a review of the rates starting in early 2027.

### D. Compensation

The total cost to complete the described activities is estimated to be \$ 312,360. The sub-totals for each task are as follows:

<u>Task</u>	<u>Sub-Total</u>
<u>Balance of 2024 Annual Operating Budget</u>	
• Project Management	\$ 5,085
• June VOC Potable Well Sampling	\$ 16,320
• November VOC Potable Well Sampling	\$ 10,815
• Groundwater Treatment System (pond) Operation & Maintenance	\$ 5,180
• Sub-Total	\$ 37,400
<u>2024 Data Gap and VOC Conceptual Site Model</u>	
• Project Management	\$ 4,645
• Investigation of Five Existing Potable Wells	\$ 25,723
• Data Gap Plume Delineation Investigation with VOC CSM report	\$ 244,592
• Sub-Total	\$ 274,960
<b>Total</b>	<b>\$ 312,360</b>

Activities outside the scope of services described in this proposal will only be completed with prior written approval.

### F. Schedule

AECOM will commence the additional activities upon written authorization to proceed. By signing below and/or providing an email authorization and returning it to David Henderson at AECOM's Milwaukee, Wisconsin office, will serve as written authorization to proceed.

The above is understood and authorization to proceed is given as noted by the undersigned:

**Approved by:**  
City of Manitowoc

**Accepted by:**  
AECOM Technical Services, Inc.

\_\_\_\_\_  
**Signature**

  
\_\_\_\_\_  
Daryl Beck, P.E. (IL, MN, ND)

\_\_\_\_\_  
**Title**

\_\_\_\_\_  
**Department Manager**  
**Title**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**May 16, 2024**  
**Date**