



Public Works Service Operations

DATE: March 12, 2024

FROM: Steven Salwei, Director Public Works Services

ITEM: 2024 BMWF Air Quality Reporting

REQUEST:

Approval of Task Order 24-02 from Houston Engineering for the Solid Waste operations to provide Air Quality Tier 2 NMOC Emission Testing, Analysis, and Reporting.

BACKGROUND INFORMATION:

The North Dakota Department of Environmental Quality (NDDEQ) issued the City of Bismarck's Permit Number 0017 to construct and operate a solid waste facility at its designated location. As part of the approved permit, the performance of Tier 2 NMOC emission testing is required every 5 years. The previous Tier 2 testing was performed in 2019. The Air Quality Title V permit is required by the NDDEQ and EPA as part of the permitting process and includes the NMOC monitoring.

RECOMMENDED CITY COMMISSION ACTION:

Approval of Task Order 24-02 from Houston Engineering for the Solid Waste operations to provide Air Quality Tier 2 NMOC Emission Testing, Analysis, and Reporting.

STAFF CONTACT INFORMATION:

ATTACHMENTS:

1. BMWF NMOC Air Quality 2024

**TASK ORDER AGREEMENT TO
BISMARCK SOLID WASTE OPERATIONS ENGINEERING SERVICES
AGREEMENT**

This is Task Order No **24-02**,
consisting of **5** pages.

Task Order

In accordance with Paragraph 1.01 of the Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated February 11, 2021 ("Agreement"), Owner and Engineer agree as follows:

1. Background Data

- a. Effective Date of Task Order: **February 13, 2024**
- b. Owner: **City of Bismarck**
- c. Engineer: **Houston Engineering Inc.**
- d. Specific Project (title): **2024 BMWF Tier 2 NMOC Emission Testing, Analysis, and Reporting**
- e. Specific Project (description): **The North Dakota Department of Environmental Quality (NDDEQ) issued the City of Bismarck's Permit Number 0017 to construct and operate a solid waste facility at its designated location. As part of the approved permit, the performance of Tier 2 NMOC emission testing is required every 5 years. The previous Tier 2 testing was performed in 2019. The Air Quality Title V permit is required by the NDDEQ and EPA as part of the permitting process and includes the NMOC monitoring.**

2. Services of Engineer

- A. The specific services to be provided or furnished by Engineer under this Task Order are as follows:
 - 1. **Install up to 55 drive point methane monitoring locations within the pertinent waste areas of the Subtitle D landfill.**
 - a. **The monitoring points will be installed to a depth of up to 8 feet below the surface.**
 - b. **Assumes 5 points will encounter refusal and re-drilling will be required (net 50 sample probe locations is assumed).**
 - 2. **Collect survey point data of all the drive points and geo-reference the survey points to the landfill benchmarks.**

3. Landfill gas encountered at each monitoring location will be purged and the flow stabilized with respect to percent oxygen (O₂), carbon dioxide (CO₂), lower explosive limit (LEL) and Methane (CH₄).
 4. Landfill gas will be collected from each monitoring point in a 6-liter (L) summa canister for chemical analysis.
 5. Composite samples will be collected to minimize sample analysis costs.
 - a. Up to four samples may be composited in a 6L canister;
 - b. the minimum individual sample size will be no less than 1L; and
 - c. up to 15 composite samples are assumed.
 6. Composite samples will be analyzed for total NMOC as carbon, CH₄, CO₂, O₂, and Nitrogen by EPA Method 25C and EPA Method 3C.
 7. Calculate NMOC concentrations and prepare a report presenting the data generated during our activities with our conclusions and recommendations based on that data.
- B. Other Services

As directed during the required permit action coordination meetings with the City of Bismarck and NDDEQ.

- C. All of the services included above comprise Basic Services for purposes of Engineer's compensation under this Task Order.

3. Additional Services

- A. Additional Services that may be authorized or necessary under this Task Order are:

Set forth as Additional Services in Part 2—Additional Services, of Exhibit A, "Engineer's Services for Task Order," modified for this specific Task Order, and attached to and incorporated as part of this Task Order.

4. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 of the Agreement and in Exhibit B.

5. Task Order Schedule

In addition to any schedule provisions provided in Exhibit A or elsewhere, the parties shall meet the following schedule:

The timeframe and/or due date as set forth in the permit documentation. Monitoring and sampling are through the end of 2024.

6. Payments to Engineer

- A. Owner shall pay Engineer for services rendered under this Task Order as follows:

By Standard Hourly rates set forth in Article 2 and described in Exhibit C Article 2 Paragraph C2.02.B of the Agreement.

The total estimated fee for services is \$36,900. This cost estimate includes subcontractor costs for Eurofins Laboratories Inc. to perform the chemical analysis and R&B Environmental Drilling, LLC (RBE) or Traut Companies (depending on availability) to perform field services. HEI will process the subcontractor invoices for inclusion in HEI billing. The portion of the estimated fee for Eurofins to perform the sampling and analysis services is \$6,300. The portion of the estimated fee for drilling services is \$11,900. The portion of the estimated fee for Engineer services to complete the Tier 2 NMOC monitoring, analysis and reporting is \$18,700. The Engineer services will be based on the cumulative hours charged during the billing period plus Reimbursable Expenses and Engineer's Consultant's charges. The total estimated fee will not be exceeded without prior written authorization of the Owner.

- B. The terms of payment are set forth in Article 4 of the Agreement and in the applicable governing provisions of Exhibit C.

7. Sub-Consultants retained as of the Effective Date of the Task Order:

Eurofins Laboratories Inc. will perform landfill gas chemical analysis.

R&B Environmental Drilling, LLC or Traut Companies will install the methane drive point sample probes for subsequent sampling by HEI.

8. Other Modifications to Agreement and Exhibits:

None

9. Attachments:

None

10. Other Documents Incorporated by Reference:

Bismarck Solid Waste Operations Engineering Services Agreement- February 11, 2021.

11. Terms and Conditions

Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is **February 13, 2024**.

OWNER: City of Bismarck

ENGINEER: Houston Engineering Inc.

By: _____

By: _____

Name: Mike Schmitz

Name: Sherwin Wanner, PE

Title: Mayor

Title: Project Manager / Bismarck Office
Manager

Engineer License or Firm's
Certificate No. 015C

State of: North Dakota

Date Signed: _____

Date Signed: _____

Attest: _____

Attest: _____

Name: Jason Tomanek

Name: Kevin Martin, PE

Title: Acting City Administrator

Title: Principal/Senior Project Manager

Address for giving notices:

Address for giving notices:

Bismarck Department of Public Works
PO Box 5503
601 S. 26th Street

Houston Engineering Inc.
3712 Lockport St.

Bismarck, ND 58506-5503

Bismarck, ND 58503

DESIGNATED REPRESENTATIVE

DESIGNATED REPRESENTATIVE

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Task Order Form

EJCDC® E-505, Agreement Between Owner and Engineer for Professional Services – Task Order Edition.
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(Paragraph 8.03.A):

Steve Salwei

Title: Director of Service Operations

Phone Number: 701-355-1705

Facsimile Number: 701-221-6840

E-Mail

Address: ssalwei@bismarcknd.gov

(Paragraph 8.03.A):

Sherwin Wanner, PE

Title: Project Manager

Phone Number: 701-323-0200

Facsimile Number: 701-323-0300

E-Mail

Address: swanner@houstoneng.com