



TETRA TECH

Exhibit A

WORK AUTHORIZATION

TO: Tetra Tech, Inc. ("Tetra Tech")

FROM: Wellington Operating Company ("Client")

WORK AUTHORIZATION NO.: 1

PROJECT TITLE: Flowline Mapping and Registration

PROJECT LOCATION: Larimer County, Colorado

Pursuant to the terms and conditions of the Master Consulting Services Agreement dated *November 11, 2019*, this Work Authorization hereby authorizes Tetra Tech, Inc. to perform the specific services and under the particular conditions set forth herein:

1. SCOPE OF WORK:

Tetra Tech will provide technical services for mapping and registering flowlines located within the Wellington Muddy Unit in Larimer County, Colorado (shown in the attached **Figure 1**) in accordance with the Colorado Oil and Gas Conservation Commission's (COGCC) current Flowline Regulations (1100 Series) and Form 44 (Flowline Report), as directed by Client.

The Scope of Work contained herein is the first of two phases that Tetra Tech proposes for completing flowline mapping and registration support to Client, as the findings from this first phase are required to inform the scoping of an efficient work plan for the second phase. The following is an overview of Tetra Tech's approach:

Phase 1 (this Work Authorization 1):

- Summarize the COGCC regulatory requirements potentially applicable to Client's operations
- Review and inventory the available electronic data for the project
- Based on the preceding two bullets, develop a field data collection checklist
- Conduct a field inventory of the surface infrastructure locations, known flowline start and end points, any pipeline road crossing markers, other known flowline attributes (e.g., material, diameter, depth, age), and description of facility operations, based on a site tour with facility personnel
 - Field survey data will be collected using a Trimble GeoXH 2005 GPS unit with a sub-meter horizontal accuracy, which meets the regulatory specifications
- Generate a geodatabase and set of layout drawings
- Generate a table identifying the Form 44 data requirements and attributes for each project flowline
- Scope a second field visit to locate and map alignments of flowlines that appear to require COGCC registration and collect as-built data as needed

Phase 2 (future Work Authorization 2; not included in this Scope of Work):

- Field locate and survey flowline alignments using a combination of ground penetrating radar and pot-holing as necessary, and collect additional as-built data as needed per the COGCC flowline rules
- Update geodatabase and set of layout drawings, and package as appropriate for Client registration with COGCC
- Update table listing Form 44 data requirements and attributes, which Client can use as an

organizational tool for assembling and entering Form 44s into the COGCC online database

Assumptions:

- It is Tetra Tech's understanding that the Wellington Muddy Unit consists of 4,673 acres and includes the following major infrastructure, based on a cursory review of the COGCC online permits database:
 - Two enhanced recovery underground injection control (UIC) wells
 - One UIC disposal well
 - One centralized E&P waste management facility (also known as the South Battery)
 - North Battery
 - Seventeen producing wells
 - Eight temporarily abandoned (TA) wells
 - Seven plugged and abandoned (P&A) wells
 - One shut-in well
 - Flowlines
 - Two active rapid infiltration basin pits
- Client will work with Tetra Tech to develop a complete inventory of known infrastructure locations and operations, as well as known flowline attribute data such as activity status, diameters, and dates.
- It is Tetra Tech's understanding that Client's desired Scope of Work includes mapping and registration of all Off-Location Flowlines, Domestic Taps, Crude Oil Transfer Lines, and Produced Water Transfer Systems (per COGCC's 1100 Series Rules) associated with all Wells, Locations, and Facilities that are currently in the COGCC online records and that the Scope of Work does not include reconciling additional historic data or attempting to field locate flowlines that may have been installed previously by another operator. We have scoped Phase 1 accordingly; however, we note for Client's reference that the COGCC's flowline rules are currently undergoing rulemaking, are scheduled to be finalized on November 22, 2019, and the most recently published version requires that all flowlines, regardless of age and other historical attributes, be mapped and registered. Tetra Tech anticipates scoping Phase 2 of this project following finalization of the revised COGCC flowline rules and can revisit Client's desired scope at that time, as appropriate.
- For the Phase 1 field visit we have budgeted up to three (3) 10-hour days for one Tetra Tech staff.
- Client will arrange for and confirm landowner access to all parcels prior to Tetra Tech's site visit.
- For Phase 1 Tetra Tech will prepare one draft set of deliverables and one revised draft set of deliverables incorporating Client comments.

2. **COMPENSATION:** For Phase 1, time and materials not to exceed **\$24,000**.

The estimated budget is based on the assumed work scope and level of effort required to perform the work. Actual costs will be billed in accordance with Tetra Tech's current Schedule of Charges. As a time and materials project, Client will only be billed for the work required. If less time is required to complete the task, Client will be billed the lesser amount.

This proposal is valid for 30 calendar days.

3. **BILLING SCHEDULE:** As specified in the Master Consulting Services Agreement

4. **TIME FOR COMMENCEMENT:** Upon receipt of signed Work Authorization 1 and 50% retainer.

5. **TIME FOR COMPLETION:**

Assuming receipt of signed work authorization and retainer by November 15, 2019, Tetra Tech estimates completing Phase 1 by December 13, 2019.

6. **REPORTING REQUIREMENTS:**

As described above under the Scope of Work.

7. OTHER PROVISIONS:

Upon execution of this Work Authorization, Client and Tetra Tech agree to bound by and comply with all the terms and conditions contained in the above referenced Master Consulting Services Agreement, except as modified by the specific terms and conditions, if any, contained herein.

APPROVED AND ACCEPTED BY:

Tetra Tech, Inc.
(Consultant)

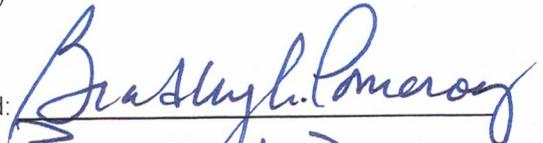
Signed: 

Name: Dan Pastor

Title: Energy and Environmental Manager

Date: November 12, 2019

Wellington Operating Company
(Client)

Signed: 

Name: BRADLEY A. POMEROY

Title: PRESIDENT

Date: 11/19/19

Attachment: Figure 1