



**Stantec Consulting Services Inc.**  
2000 South Colorado Blvd. Suite 2-300, Denver CO 80222

June 4, 2020  
File: 182603883

**Attention: Mr. Steve Arauza**

State of Colorado Oil and Gas Conservation Commission  
818 Taughenbaugh Blvd., Suite 103  
Rifle, CO 81650

**Reference: Wilson Creek Unit Onsite Landfarm – Cell 2 Removal and Landfarm Closure Workplan,  
12 Miles North of Meeker, Rio Blanco County, Colorado Centralized EP Waste  
Management Facility ID: 149002**

Dear Mr. Fischer,

Stantec Consulting Services Inc. (Stantec), on behalf of Chevron Environmental Management Company (CEMC), is submitting to the Colorado Oil and Gas Conservation Commission (COGCC) this closure workplan for the Wilson Creek Landfarm Cell 2 located at 7265 Rio Blanco County Road #9 in Meeker, Rio Blanco County, Colorado (Site).

## Background

Chevron USA, Inc. (Chevron) previously operated the Onsite Landfarm to treat Exploration and Production (E&P) Wastes generated from operations at the Site. The Landfarm is permitted for operation by the COGCC (Facility ID 149002) as a Centralized E&P Waste Management Facility under COGCC Rule 908. The Landfarm is approximately 0.8 acres in size and is segregated into two cells: former Cell 1, the previously lined portion, was 0.2 acres in size and Cell 2, the unlined portion, is 0.6 acres in size (**Figure 1**).

Cell 1 was removed in 2019 during excavation activities as outlined in the *Remediation Documentation Report – Onsite Landfarm Cell 1*, dated December 13, 2019. The excavation of Cell 1 was conducted to remove soils above the COGCC Table 910-1 Concentration Levels and soils perceived to be above COGCC 910-1 criteria. Approximately 2,400 cubic yards of impacted soils and 40 cubic yards of liner were hauled from Cell 1 and disposed of at the Wray Gulch Landfill near Meeker, Colorado.

The purpose of this workplan is to describe the activities to remove impacted soils from Cell 2 and request closure for the Landfarm. Hydrocarbon contaminated soil has not been added to Cell 2 since September 2014 and based on analytical data collected, both TPH and arsenic concentrations in soil are above COGCC Table 910-1 concentration levels. Due to the relatively high concentrations of TPH and arsenic remaining in Cell 2, Chevron has decided to remove Cell 2 through excavation and offsite disposal. This workplan describes the soil excavation and confirmation sampling proposed to remove Cell 2 and request closure of the Landfarm.



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## Excavation Activities

The scope of work for removal of Cell 2 and request for Landfarm closure will occur through the following field activities:

1. Provide COGCC Environmental Staff with a minimum of 72-hour notice prior to mobilization of the remedial excavation team;
2. As required by law, the Utility Notification Center of Colorado (UNCC) will be notified at least 48 hours before any intrusive activities. In addition to notifying the UNCC, Stantec will review all subsurface assessment and excavation locations with Chevron operations staff prior to breaking ground. No intrusive work will be conducted within five (5) feet of a known underground utility.
3. Prior to the excavation, three (3) monitoring wells (MW-48R, MW-49, and MW-50) will be properly abandoned per State of Colorado rules and regulations for water well construction, pump installation, cistern installation, and monitoring and observation hole/well construction (2 Code of Colorado Regulations [CCR] 402-2). Groundwater samples collected at the Landfarm monitoring wells have never exceeded COGCC 910-1 Concentrations Levels since installed.
4. All soils will be excavated to the vertical extent of impacted soil within Cell 2, approximately three (3) to five (5) feet below ground surface (bgs), and directly loaded into trucks for transportation to the Wray Gulch Landfill for disposal. The excavation will begin where Cell 1 excavation activities ended (**Figure 1**). Waste manifests will be collected for the final documentation report and submitted on a supplemental eForm 27 when project closure is requested.
5. Soils will be screened using visual observation, photoionization detector (PID), and analytical results to verify the vertical extent of hydrocarbon impacted soil. If impacts are observed beneath five (5) feet bgs, additional soil will be excavated using field screening techniques to ensure all hydrocarbon impacts are removed.
6. Following soil excavation, up to nine (9) confirmation soil samples will be collected as follows:
  - a. Three (3) floor samples will be collected from the excavation floor.
  - b. Six (6) sidewall samples will be collected from the excavation sidewall.



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7. Confirmation soil samples will be submitted for analysis for all Table 910-1 Contaminates of Concern.
8. Following receipt of soil samples less than Table 910-1 Concentration Levels, the excavation will be backfilled to the existing grades at the Site using berm materials or purchased backfill with concentrations that meet Table 910-1 Concentration Levels. Soil will be placed in loose lifts not exceeding 2-feet in height and compacted to non-yielding conditions. Compaction methods may include a vibratory roller, excavator bucket, or proof rolling with equipment.

Fill material may consist of:

- Imported fill;
- Stormwater berm materials removed during excavation preparation; or
- Materials from on-site borrow source.

The intent is to only use fill materials that meet COGCC Table 910 criteria. On-site borrow will only be utilized if it can be done in a manner consistent with the natural landscape. Areas established for borrow sources will be graded and dressed appropriately. Stormwater berm materials removed during excavation preparation will be beneficially reused as backfill.

9. Following remediation of soil above 910-1 Concentration Levels, Chevron as the property owner would like to continue to use this area as a storage/laydown yard for existing operations and will request a variance from the COGCCs reclamation unit. Chevron plans to leave the fence and surrounding stormwater controls in place for continued use as a storage area.

## Field Documentation

The excavation limits and confirmation soil sample location(s) will be documented using a survey grade global positioning system (GPS) and field notes. Waste manifests generated from the disposal of soils from Cell 2 will be collected and submitted with the final documentation report.

## Reporting

Closure activities including excavation and sampling of Cell 2 will be documented in the final documentation report and submitted via eForm 27. The final documentation report will include:



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- A written project summary;
- Excavation details of Cell 1 and Cell 2 (location, dimensions, and volume);
- Final compliance soil sample analytical results with mapped location(s); and
- Soil disposal information (waste manifest documentation).

## Project Schedule

It is anticipated that Cell 2 removal activities will start in July 2020 and last approximately two weeks. The schedule is contingent upon weather related conditions (e.g. heavy rains, thunderstorms, and freezing conditions) and resource availability.

Should you have any questions, please contact Adriane Gifford with CEMC at 832-270-3436 (agifford@chevron.com) or Brent Lucyk at 517-749-9405 (brent.lucyk@stantec.com).

Regards,

Stantec Consulting Services Inc.

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Attachments:

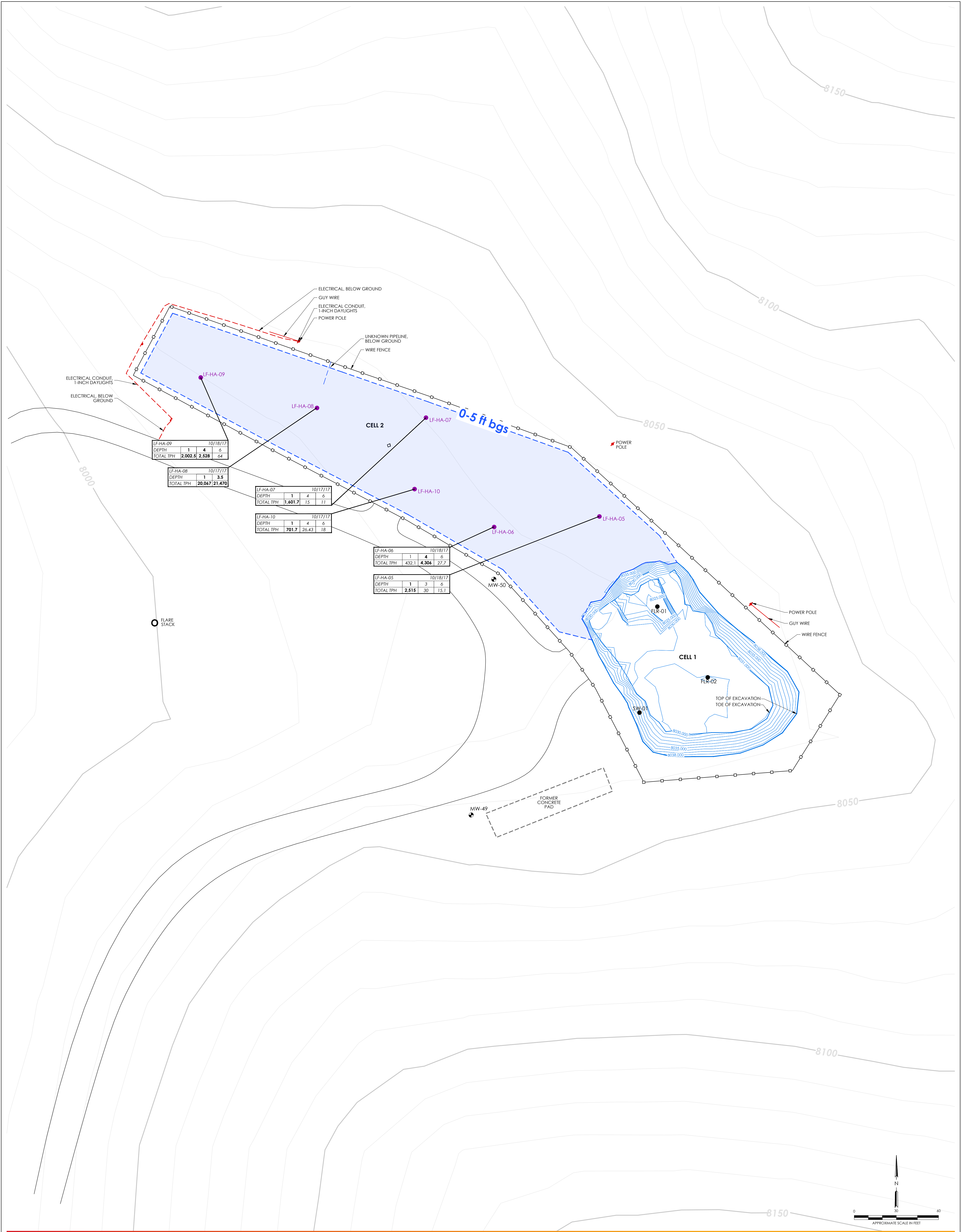
Figure 1 – Onsite Landfarm

cc. Project File

Adriane Gifford, CEMC

Chris Patterson, Chevron





**Notes**

1. Coordinate System: NAD 1983 State Plane Colorado North FIPS 5001 Feet.  
2. Base features produced by Chevron, US Census Bureau, and USGS.  
3. This figure was created using a Digit Globe Satellite Image, 2017 and Google Earth Images, 2014.  
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.  
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- Legend**
- GROUND SURFACE CONTOURS (10' INTERVAL; ABOVE MEAN SEA LEVEL)
  - FENCE LINE
  - TOP OF BERM
  - ELECTRICAL LINE (BELOW GRADE)
  - UNKNOWN PIPELINE LINE (BELOW GRADE)
  - TOP OF BERM
  - ACTUAL EXCAVATION LIMITS (TOP)
  - ELEVATION CONTOURS (FEET ABOVE MEAN SEA LEVEL)
  - MONITORING WELL
  - SOIL BORING
  - CONFIRMATION SOIL SAMPLE

**VERTICAL EXCAVATION LIMITS**

- EXCAVATE IMPACTED SOIL FROM 0-5 FT BGS

**Analyte**

SAMPLE ID	SAMPLE DATE
DEPTH	FEET BGS
TOTAL TPH	mg/kg

FEET BGS = FEET BELOW GROUND SURFACE  
TPH = TOTAL PETROLEUM HYDROCARBONS  
mg/kg = MILLIGRAMS PER KILOGRAM

**BOLD** = TOTAL TPH CONCENTRATION ABOVE THE COLORADO OIL AND GAS CONSERVATION COMMISSION (COGCC) SERIES 900 ALLOWABLE CONCENTRATION OF 500 mg/kg



Project Location:  
7265 Rio Blanco County Road 6  
Meeker, CO

Prepared by CCL on 2020-05-13  
Technical Review by TA on 2020-05-13  
Independent Reviewed by BL on 2020-05-13  
1826038893

Client/Project  
Chevron Environmental Management Company  
Wilson Creek Site Assessment

Figure No.  
**1**

Title  
**Onsite Landfarm**