

## **SVE Pilot Testing Reporting Requirements SOP**

The SVE Pilot Testing Reports must be reviewed and signed by a NM PE.

- The Field Data Sheet should include the following:
  - Recorded/Measured data:
    - Date
    - Time
    - Elapsed Time
    - Screened intervals for both the test well and the observation wells
    - Depth to water and depth to NAPL (if present) in test well at start of pilot test and end of pilot test.
    - Ambient Temperature
    - Well effluent temperature
    - Vacuum at Blower Inlet
    - Test well vacuum
    - Test well effluent flow
    - Dilution air contribution flow
    - Total system flow (pre-extraction blower)
      - *All flow values must be reported in scfm. All pertinent data used to calculate scfm must also be reported.*
    - Distance of observation wells from test well
    - Barometric pressure
    - Well effluent VOCs concentrations by field instrument – as well, note the time and location of samples taken for lab analysis of VOC concentrations.
    - Well effluent fixed gas concentrations by field instrument – as well, note the time and location of samples taken for lab analysis of relevant fixed gas concentrations.
    - Well effluent vapor % Lower Explosive Limit (%LEL)
    - Measured vacuum response at observation wells
    - Comments –observations noted during pilot test
- Provide a brief of hydrocarbon recovery rate (lbs/hr) calculation for each test well.
- Graphs of SVE Pilot Test Data (for each test well) :
  - Well effluent hydrocarbon concentration data based on field instrument measurements versus time
  - Well effluent GRO hydrocarbon concentrations based on lab analysis versus time
  - Relevant individual well effluent fixed gas concentrations versus time
  - Applied vacuum versus time
  - Vacuum response at observation wells depicting vacuum vs radial distance from the test well
  - Flow in scfm versus time for each test well
  - Well effluent vapor temperature versus time
  - On-site barometric pressure versus time
  - On-site ambient temperature versus time
  - Groundwater upwelling (feet) in the test well versus time
- Maps:
  - Isopleths depicting vacuum responses:
    - Include isopleths for inferred no vacuum response; 0.1” H<sub>2</sub>O; 3% applied vacuum; 10% applied vacuum and others as appropriate.
    - Annotate with individual well vacuum response data.

- Discussion of results of pilot tests describing efficacy of SVE as a remediation strategy for this site including recommendations