

## AK102 Diesel Range Organics<sup>1</sup> - QA/QC

### LAB INFORMATION

|               |                              |                             |                          |  |  |
|---------------|------------------------------|-----------------------------|--------------------------|--|--|
| Lab Name      |                              |                             | Site:                    |  |  |
| ADEC approved | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Project:                 |  |  |
| UST number    | UST-____                     |                             | UST Expiration Date: / / |  |  |

### SAMPLE INFORMATION

|                   |                                  |                               |                                   |                                 |
|-------------------|----------------------------------|-------------------------------|-----------------------------------|---------------------------------|
| Matrix            | <input type="checkbox"/> Aqueous | <input type="checkbox"/> Soil | <input type="checkbox"/> Sediment | <input type="checkbox"/> Other: |
| Extraction Method | Water:                           | Soil:                         | Solvent:                          |                                 |

### AK102 QC RESULTS FOR ANALYTICAL BATCH

| Type  | M. B.   | S. B.   | LFB 1   | LFB 2   | CCS1    | CCS2    | CCS3    | CVS     | MS      | MSD     |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Lab ID                                      |         |         |         |         |         |         |         |         |         |         |
| Date Prepared                               |         |         |         |         |         |         |         |         |         |         |
| Date Extracted                              |         |         |         |         |         |         |         |         |         |         |
| Date Analyzed                               |         |         |         |         |         |         |         |         |         |         |
| Dilution Factor                             |         |         |         |         |         |         |         |         |         |         |
| % Moisture (soil)                           |         |         |         |         |         |         |         |         |         |         |
| Units                                       |         |         |         |         |         |         |         |         |         |         |
| Correct integration range used?             |         |         |         |         |         |         |         |         |         |         |
| Method Blank (M.B.) Results                 |         |         |         |         |         |         |         |         |         |         |
| Solvent Blank (S.B.) Results                |         |         |         |         |         |         |         |         |         |         |
| Are Blanks less than the PQL <sup>2</sup> ? |         |         |         |         |         |         |         |         |         |         |
| Lab Fortified Blank (#1) % Recovery         |         |         |         |         |         |         |         |         |         |         |
| Lab Fortified Blank (#2) % Recovery         |         |         |         |         |         |         |         |         |         |         |
| <b>LFB Acceptance Range</b>                 |         |         | 75-125% | 75-125% |         |         |         |         |         |         |
| LFB RPD <sup>3</sup> (%)                    |         |         |         |         |         |         |         |         |         |         |
| <b>LFB RPD<sup>3</sup> Acceptance Limit</b> |         |         |         | ≤ 20%   |         |         |         |         |         |         |
| CCS Results                                 |         |         |         |         |         |         |         |         |         |         |
| <b>CCS Acceptance Range</b>                 |         |         |         |         | 75-125% | 75-125% | 75-125% |         |         |         |
| CVS Results                                 |         |         |         |         |         |         |         |         |         |         |
| <b>CVS Acceptance Range</b>                 |         |         |         |         |         |         |         | 75-125% |         |         |
| Matrix Spike Result                         |         |         |         |         |         |         |         |         |         |         |
| Matrix Spike Duplicate Result               |         |         |         |         |         |         |         |         |         |         |
| Matrix Spike RPD <sup>3</sup> (%)           |         |         |         |         |         |         |         |         |         |         |
| Surrogate % Recoveries for all QC           |         |         |         |         |         |         |         |         |         |         |
| <b>Surrogate Acceptance Range</b>           | 60-120% | 60-120% | 60-120% | 60-120% | 60-120% | 60-120% | 60-120% | 60-120% | 60-120% | 60-120% |

<sup>1</sup> Diesel Range Organics data exclude concentrations of any surrogate(s) and/or internal standards eluting in that range.

DRO integration range is from the peak start of C<sub>10</sub> to the peak start of C<sub>25</sub>.

<sup>2</sup> PQL = Practical Quantitation Limit. PQL=MDL X 10. Must be less than 20 mg/Kg in soil and 800 ug/L in water.

<sup>3</sup> RPD = Relative Percent Difference.  $(|A-B|) / ((A+B)/2) \times 100$ .

Matrix Spike and Matrix Spike Duplicate Results are for informational purposes only. There are no recovery requirements for these samples.

### COMMENTS

- |  |                              |   |
|--|------------------------------|---|
| 1. Were all QA/QC procedures REQUIRED by the AK102 Method followed?                      | <input type="checkbox"/> Yes | <input type="checkbox"/> No-Details attached  |
| 2. Were all performance/acceptance standards for the required QA/QC procedures achieved? | <input type="checkbox"/> Yes | <input type="checkbox"/> No-Details attached  |
| 3. Were any significant modifications made to the AK102 method?                          | <input type="checkbox"/> No  | <input type="checkbox"/> Yes-Details attached |

SIGNATURE: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

I certify that I have personally reviewed the above checklist and that all information is correct.