TETRA TECH, INC.
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December 31, 2024

Christopher J. White, Esq.
Vice President - Real Estate & Environmental Counsel
D.R. Horton, America's Builder
1341 Horton Circle
Arlington, Texas 76011

**Subject:** **LIMITED PHASE II INVESTIGATION**
Keller Crossing
Highway 79 and Keller Road
Winchester, Riverside County, California 92596
Tetra Tech Project Number: 212C-HN-D2417-COR0082B

Dear Mr. White,

Tetra Tech, Inc. (Tetra Tech) is pleased to provide D.R. Horton, Inc. (DHI) with this letter report detailing our Limited Phase II Environmental Site Assessment (ESA) for the proposed Keller Crossing residential development (target property) located in the vicinity of latitude 33.6310180 degrees north and longitude 117.0958870 degrees west in Winchester, Riverside County, California. The objective of this investigation was to assess the shallow soil conditions throughout the former agricultural fields located on the target property, which represent areas of historical sewage sludge application.

**Background and Purpose**

A Phase I ESA was conducted by Tetra Tech in 2020 for approximately 197 acres of agricultural land which would be redeveloped as the Keller Crossing residential subdivision. According to a review of historical aerial photographs, the target property consisted of agricultural land with hilly terrain and scattered stream channels since at least 1949. According to the documents received from the Riverside County Department of Environmental Health, the Keller Crossing property received Class A Biosolids for the years 2016, 2018, and 2019 under Riverside County Ordinance No. 830 - Land Application of Class A Sewage Sludge for Agricultural Activities. Records were not available prior to 2016. According to the ordinance, sludge is defined as accumulated matter produced in the treatment of wastewater that has been processed for pathogen reduction in accordance with federal regulations for sewage sludge. Although, ceiling concentrations for select metals in sewage sludge are published under 40 Code of Federal Regulations (CFR) Section 503.13 Table 1, sludge can also contain pathogenic organisms, chemical


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pollutants, and synthetic organic compounds. Based on the identified application of sewage sludge on the target property, an assessment of the shallow soils throughout the target property was conducted.

**Work Plan/Health and Safety Plan**

Tetra Tech personnel developed a site-specific work plan for this Limited Phase II ESA. The work plan identified the specific issues, potential contaminants, and planned sampling and analysis approach. Upon approval of the scope of work by DHI, a site-specific Health and Safety Plan (HASP) was generated. Utilities were cleared using California One Call.

**Methodology**

In September 2024, Mr. Maxx Wlodarczyk and Janine Angenent of Tetra Tech mobilized to the target property to conduct the field work associated with the limited subsurface assessment. The agricultural fields, which have consisted of approximately 135 acres since 2016, were subdivided into 27 5-acre units (Areas 1 through 27). Five soil borings (approximately 1 per acre) were installed via hand auger to a depth of 2 feet below ground surface (bgs) in each of the 5-acre units, for a total of 135 soil borings. From each soil boring, two discrete soil samples were collected: one from 0 to 0.5 feet bgs and one from 1 to 2 feet bgs, for a total of 270 discrete soil samples. The soil borings were continuously logged and inspected for signs of a release, including visual and olfactory inspection and screening with a photoionization detector (PID). No elevated PID readings or evidence of release was observed in the installed borings. In addition, one five-point composite surface soil sample was collected from 0 to 0.5 feet bgs from each 5-acre unit, for a total of 27 composite surface soil samples.

The composite soil samples described above were submitted to Pace National Analytical to be analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (EPA) Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270, Total Petroleum Hydrocarbons (TPHs) Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) by California Method CA-GRO and CA-DRO, herbicides by EPA Method 8151, organophosphorus pesticides (OPPs) by EPA Method 8141, organochlorinated pesticides (OCPs) by EPA Method 8081, and Resource Conservation and Recovery Act (RCRA) 8 metals by EPA Method 6010/7040. All discrete soil samples were placed on hold for the same analyses at the laboratory, pending the results of the composite soil samples. A Sample Location Map is provided as Figure 1 – Exhibit 1.



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**Laboratory Analytical Results**

As noted in Table 1, analytical results for the composite soil samples collected revealed detectable concentrations of several metals, VOCs, PAHs, one herbicide, and TPH. All detected concentrations were determined to be below their applicable Southern California Background Arsenic Concentration, Note 3 Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Screening Levels for Residential Soil Cancer Endpoints/Soil Non-Cancer Endpoints, San Francisco Bay Regional Water Quality Control Board (SFBRWCB) Tier 1 Residential Shallow Soil Exposure Environmental Screening Levels (ESLs), and SFBRWCB Tier 1 Leaching to Groundwater Levels for Drinking Water and Non-Drinking Water, with the exception of arsenic and PAHs in the samples collected from Area 2 and Area 19, respectively. Arsenic was detected in the Area 2 composite soil sample (AREA 2-COMP) at a concentration of 13.1 milligrams per kilogram (mg/kg), which exceeds the applicable Southern California Background Arsenic Concentration of 12 mg/kg. The PAHs benzo(a)pyrene and dibenz(a,h)anthracene were detected at concentrations of 0.288 mg/kg and 0.0416 mg/kg, respectively, in the Area 19 composite soil sample (AREA 19-COMP). The detected benzo(a)pyrene concentration exceeded both the applicable Note 3 DTSC HERO HHRA Screening Level for Residential Soil Cancer Endpoint and the applicable SFBRWCB Tier 1 Residential Shallow Soil Exposure ESL of 0.11 mg/kg, while the detected dibenz(a,h)anthracene concentration exceeded the Note 3 DTSC HERO HHRA Screening Level for Residential Soil Cancer Endpoint of 0.028 mg/kg. However, according to the laboratory quality control (QC) data, the associated batch QC was outside the established quality control range for accuracy. Therefore, the sample was reanalyzed due to QC failure. PAHs were non-detect in the reanalysis of sample AREA 19-COMP, which is in line with the other 26 areas analyzed as part of this assessment. Based on the data quality of the initial run and the results of the reanalysis being reflective of the site conditions reported for the remainder of the site, the initial run results are considered anomalous, and the PAHs in Area 19 are considered to be non-detect

Based on the arsenic exceedances reported in the AREA 2-COMP sample, Tetra Tech released the five discrete soil samples collected from this area from 0 to 0.5 feet bgs. Analytical results for the discrete samples revealed detectable concentrations of arsenic ranging from 11.8 mg/kg to 18.5 mg/kg, with four out of the five samples exhibiting concentrations above the Southern California Background Arsenic Concentration of 12 mg/kg.



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At this point, DHI indicated to Tetra Tech that Area 2 of the target property was to be located within a conservation area of the proposed development as part of the Riverside County Multi Species Habitat Conservation Plan, specifically Criteria Cell 5173. This Cell is approximately 159.15 acres and will contribute to assembly of Proposed Constrained Linkage 17. Conservation within this Cell will reportedly be focused on chaparral habitat and agricultural land. Areas conserved within this Cell will be connected to grassland habitat proposed for conservation in Cell 5175 located to the west, to chaparral and coastal sage scrub habitat proposed for conservation in Cell Group U located to the north, and to chaparral habitat proposed for conservation in Cell 5169 to the east. Conservation within this Cell will range from 20 to 30 percent of the Cell focusing on the northern portion of the Cell.

Based on the data provided by the United States Geological Survey (USGS) arsenic concentrations for the County of Riverside range from 0.603 mg/kg to 39.294 mg/kg. The arsenic concentrations detected in Area 2 are within this range. Therefore, based on the intended use of this area and background arsenic range identified by the USGS, the arsenic concentrations identified within Area 2 of the target property do not warrant further investigation.

Results of laboratory analysis of the composite and discrete samples are summarized in Table 1, which is provided in Exhibit 2. A copy of the laboratory data package is provided as Exhibit 3.

**Conclusions**

The results of the assessment indicated that arsenic concentrations detected in shallow soils in Area 2 are within typical background concentrations for the County of Riverside. Furthermore, Area 2 is located within a proposed conservation area and therefore, no additional assessment is warranted.

Tetra Tech appreciates the opportunity to be of service to you. Please contact us if you have any questions or if we may be of further service.



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Sincerely,

**TETRA TECH, INC.**

Manuela Pastrano
Environmental Scientist/Project Manager

Keith Bell
Program Manager

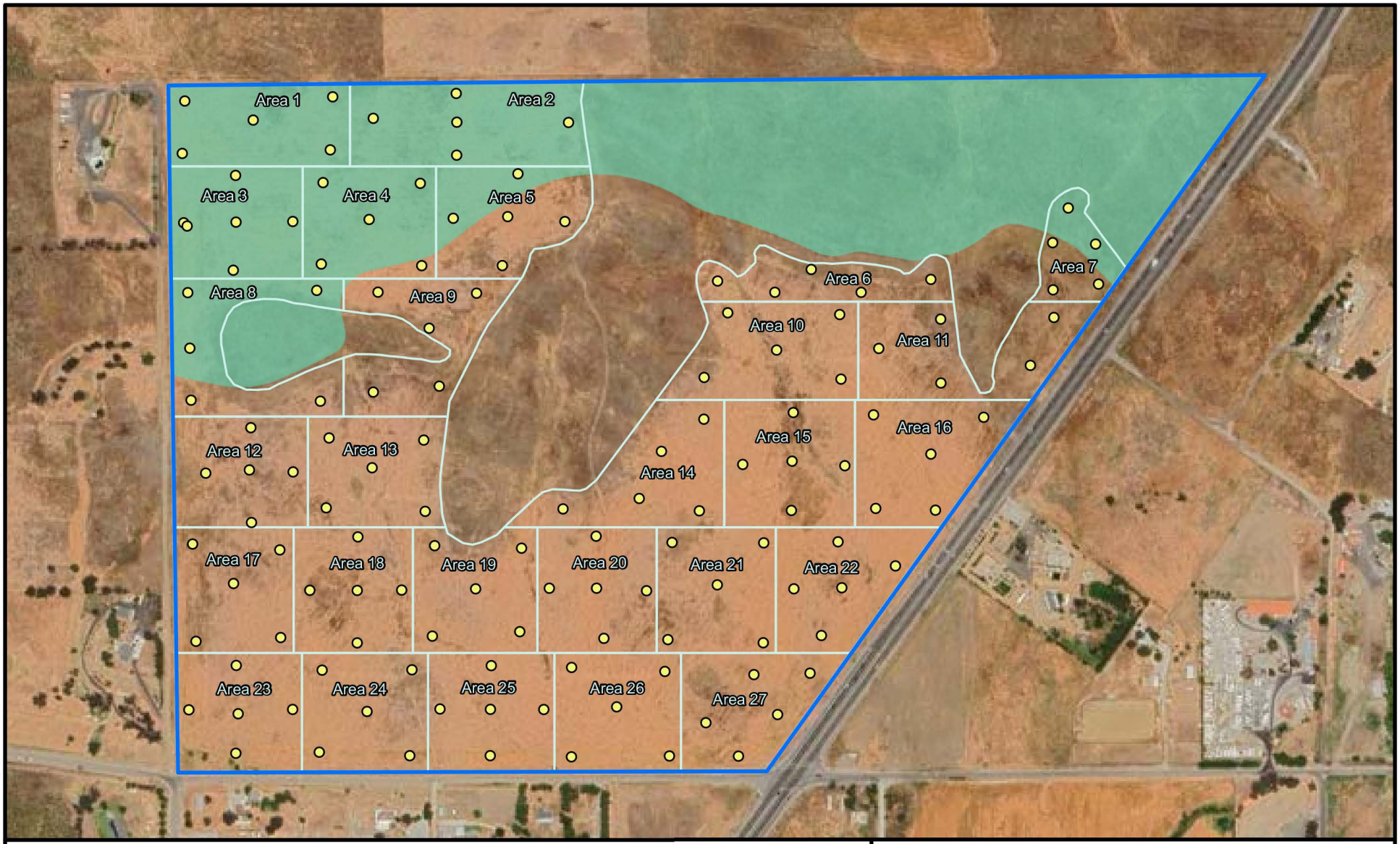
Attachments: Exhibit 1 – **Figure**
Exhibit 2 – **Table**
Exhibit 3 – **Laboratory Data Package**



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# EXHIBIT 1

## Figure




APPROXIMATE TARGET PROPERTY BOUNDARY
5-ACRE AREA
OPEN SPACE - CONSERVATION HABITAT
SOIL BORING LOCATION

N
W E
S

0 250 500
Approximate Scale in Feet

SOURCE: GOOGLE EARTH, IMAGERY 2023.

SAMPLE LOCATION MAP
KELLER CROSSING
HIGHWAY 79 AND KELLER ROAD
WINCHESTER, RIVERSIDE COUNTY, CALIFORNIA 92596

D·R·HORTON

Tetra Tech, Inc. Project 212C-HN-D2417-COR0082B

FIGURE
1

User: LISSA.VILLAMIN Date: 12/31/2024 \\tt.local\gfs1\USVolume4\Legacy\ttsd099fs11\OGA\Shared\NEW Projects\DR Horton\Projects\212C-HN-D23 (2023)\02_California\COR001 Keller Crossing Dsn\Exhibit 1 - Figures\GIS\CAL_COR001_Keller_Crossing.aprx

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# EXHIBIT 2

## Table

**Table 1 – Soil Sample Results – Detectable Concentrations**
**Keller Crossing**
**Highway 79 and Keller Road**
**Winchester, Riverside County, California 92596**
**Tetra Tech Project Number: 212C-HN-D2417-COR0082B**

| Client Sample ID / Date Collected / Medium / Depth / Unit | Southern California Background Arsenic Concentration (mg/kg) | Note 3 DTSC HERO HHRA Screening Level for Residential Soil Cancer Endpoint (mg/kg) | Note 3 DTSC HERO HHRA Screening Level for Residential Soil Non-Cancer Endpoint (mg/kg) | SFBRWCB Tier 1 Residential Shallow Soil Exposure ESLs (mg/kg) | SFBRWCB Tier 1 Leaching to Groundwater Levels Drinking Water (mg/kg) | SFBRWCB Tier 1 Leaching to Groundwater Levels Non-Drinking Water (mg/kg) | | | | | | | | | | | | | | MP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 12 | 0.11 | 0.41 | 0.067 | - | - | 9.16 | 13.1 | 4.85 | 4.64 | 5.84 | 6.16 | 1.63 J | 3.99 | 4.71 J6 | 3.3 | 3.1 | 6.17 | 3.5 | 2.92 |
| Barium | - | - | - | 390 | - | - | 172 | 220 | 107 | 105 | 118 | 129 | 110 | 64.3 | 132 J6 | 157 | 96.4 | 129 | 125 | 117 |
| Cadmium | - | 910 | 7.1 | 1.9 | - | - | U | U | 0.731 | 0.559 | 0.364 J | 0.453 BJ | 0.325 BJ | 0.184 J | 0.307 J | 0.308 BJ | 0.386 BJ | 0.234 J | 0.147 J | 0.223 J |
| Chromium | - | - | - | 160 | - | - | 41.9 | 42.8 | 20.6 | 21.5 | 27.3 | 16.1 | 7.65 | 9.71 | 20.3 J6 | 22.6 | 13.8 | 20 | 16 | 17.2 |
| Lead | - | - | 80 | 32 | - | - | 13.1 | 16 | 9.89 | 9.5 | 11.7 | 10.4 | 8.38 | 7.15 | 10.9 | 8.84 | 7.01 | 11.2 | 7.91 | 7.87 |
| Selenium | - | - | - | 2.4 | - | - | 1.38 J | 1.89 J | 1.8 J | 1.78 J | 1.97 J | U | U | 1.24 J | 2.03 JJ6 | U | U | 2.36 | 1.52 J | U |
| Silver | - | - | - | 25 | - | - | 0.395 J | 0.409 J | 0.609 BJ | 0.531 BJ | 0.487 BJ | U | U | 0.462 BJ | 0.62 BJ | U | U | 0.601 BJ | 0.324 J | U |
| Mercury | - | - | 1 | 13 | - | - | U | U | 0.0386 J | 0.0302 J | 0.0567 | 0.0567 | 0.027 J | 0.0215 J | 0.0329 J | 0.0704 | 0.023 J | 0.0552 | 0.0672 | 0.0262 J |
| 2,4,5-T | - | - | 630 | - | - | - | U | U | U | U | U | U | U | U | U | U | U | U | 0.0115 J | U |
| C5-C12 | - | - | 97* | 100* | 1100* | 4900* | 4.34 B | 2.17 BJ | 1.39 BJ | 1.34 BJ | 1.35 BJ | 3.21 | 2.35 J | 1.24 BJ | 1.28 BJ | 2.82 B | 2.76 J | 1.33 BJ | 1.72 BJ | 2.58 BJ |
| C12-C22 | - | - | 97* | 100* | 1100* | 4900* | 9.32 | 5.48 J6 | 8.75 | 9.29 | 8.41 | 8.83 | 3.41 JJ3J6 | 8.44 | 8.06 J | 12.6 | 9.73 | 7.91 J | 9.93 | 15.9 |
| Acetone | - | - | - | 1,500 | 0.92 | 0.92 | U | U | U | U | U | U | U | U | U | U | U | U | 0.046 J | U |
| 4-Methyl-2-pentanone (MIBK) | - | - | - | 0.36 | 0.36 | 0.51 | U | U | U | U | U | U | U | U | U | U | U | U | 0.00313 J | U |
| p-Isopropyltoluene | | - | - | - | - | - | U | U | U | U | U | 0.0225 | U | U | U | U | U | U | U | U |
| Naphthalene | - | 2 | 130 | 0.042 | 0.042 | 1.2 | U | U | U | U | 0.00791 J | U | U | U | U | U | U | U | U | U |
| Styrene | - | - | 5,600 | 0.92 | 0.92 | 10 | U | 0.00153 J | U | 0.000418 J | 0.00134 J | U | U | 0.000432 J | U | U | U | U | 0.000308 J | U |
| 1,2,4-Trimethylbenzene | - | - | - | - | - | - | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Toluene | | - | 1,100 | 3.2 | 3.2 | 10 | U | U | U | U | U | 0.0022 J | U | U | U | U | U | U | U | U |
| Xylenes | - | - | - | 2.1 | 2.1 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(a)anthracene | - | 1.1 | - | 0.63 | 10 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(b)fluoranthene | - | 1.1 | - | 1.1 | 5.4 | 75 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(k)fluoranthene | - | 11 | - | 2.8 | 4.8 | 39 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(g,h,i)perylene | - | - | - | 2.5 | 27 | 27 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Benzo(a)pyrene | - | 0.11 | 18 | 0.11 | 5.7 | 5.7 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Chrysene | - | 110 | - | 2.2 | 2.2 | 10 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Dibenz(a,h)anthracene | - | 0.028 | - | 0.11 | 29 | 390 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Fluoranthene | - | - | 2,400 | 0.69 | 86 | 86 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Indeno(1,2,3-cd)pyrene | - | 1.1 | - | 0.48 | 16 | 32 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Pyrene | - | - | 1,800 | 45 | 45 | 45 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |

| Client Sample ID / Date Collected / Medium / Depth / Unit | Southern California Background Arsenic Concentration (mg/kg) | Note 3 DTSC HERO HHRA Screening Level for Residential Soil Cancer Endpoint (mg/kg) | Note 3 DTSC HERO HHRA Screening Level for Residential Soil Non-Cancer Endpoint (mg/kg) | SFBRWCB Tier 1 Residential Shallow Soil Exposure ESLs (mg/kg) | SFBRWCB Tier 1 Leaching to Groundwater Levels Drinking Water (mg/kg) | SFBRWCB Tier 1 Leaching to Groundwater Levels Non-Drinking Water (mg/kg) | | | | | | | | | | | | | | MP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 12 | 0.11 | 0.41 | 0.067 | - | - | 11.3 | 4.9 | 4.05 | 3.86 | 10.4 | 10.4 | 7.25 | 4.23 | 3.5 | 5.1 | 7.56 | 4.75 | 4.37 | 4.07 |
| Barium | - | - | - | 390 | - | - | 153 | 151 | 156 | 99.8 | 177 | 177 | 147 | 137 | 116 | 148 | 193 | 153 | 170 | 133 |
| Cadmium | - | 910 | 7.1 | 1.9 | - | - | 0.258 BJ | 0.218 BJ | 0.192 J | 0.111 J | U | U | 0.32 J | 0.243 J | 0.394 J | U | U | 0.119 J | 0.122 J | 0.341 J |
| Chromium | - | - | - | 160 | - | - | 19.8 | 21.3 | 17.3 | 10.7 | 20.3 | 20.3 | 19.5 | 20.2 | 13.2 | 20 | 29.7 | 17.6 | 26.4 | 23.2 |
| Lead | - | - | 80 | 32 | - | - | 10.4 | 9.62 | 10.5 | 6.7 | 11.2 | 11.2 | 8.55 | 7.98 | 7.25 | 10.1 | 11.1 | 8.87 | 10.8 | 8.57 |
| Selenium | - | - | - | 2.4 | - | - | U | U | 1.45 J | U | 0.889 J | 0.889 J | U | U | U | 0.857 J | 1.43 J | U | 1 J | U |
| Silver | - | - | - | 25 | - | - | U | U | 0.468 J | 0.249 J | 0.308 J | 0.308 J | U | U | U | 0.299 J | 0.342 J | 0.29 J | 0.29 J | U |
| Mercury | - | - | 1 | 13 | - | - | 0.0373 J | 0.0409 | 0.0441 | 0.0326 J | 0.0267 J | 0.0267 J | 0.0301 JJ6O1 | 0.023 J | 0.0325 J | 0.061 | 0.039 J | 0.025 J | 0.0437 | 0.0254 J |
| 2,4,5-T | - | - | 630 | - | - | - | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| C5-C12 | - | - | 97* | 100* | 1100* | 4900* | 1.93 BJ | 2.1 BJ | 2.03 BJ | 2.05 BJ | 2.24 BJ | 2.24 BJ | 3.04 B | 3.19 BJ | 2.89 B | 2.82 BJ | 2.87 BJ | 3.07 BJ | 1.78 BJ | 3.34 B |
| C12-C22 | - | - | 97* | 100* | 1100* | 4900* | 12 | 13.6 | 41.1 | 9.6 | 8.75 | 8.75 | 11.2 | 8.41 | 19.6 | 15 | 12.5 | 12.2 | 12.6 | 14.7 |
| Acetone | - | - | - | 1,500 | 0.92 | 0.92 | U | 0.0767 J4 | U | U | U | U | U | U | U | U | U | U | U | U |
| 4-Methyl-2-pentanone (MIBK) | - | - | - | 0.36 | 0.36 | 0.51 | U | U | U | U | U | U | 0.00273 J | U | 0.00354 J | U | U | U | U | 0.00382 J |
| p-Isopropyltoluene | | - | - | - | - | - | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Naphthalene | - | 2 | 130 | 0.042 | 0.042 | 1.2 | U | U | U | U | U | U | U | U | U | U | U | U | U | U |
| Styrene | - | - | 5,600 | 0.92 | 0.92 | 10 | U | U | U | U | U | U | U | U | U | 0.000721 J | U | U | 0.000606 J | U |
| 1,2,4-Trimethylbenzene | - | - | - | - | - | - | U | U | U | U | U | U | U | 0.00433 J | U | U | U | U | U | U |
| Toluene | | - | 1,100 | 3.2 | 3.2 | 10 | U | 0.00185 J | U | U | U | U | U | | | | | | | |
| Xylenes | - | - | - | 2.1 | 2.1 | 10 | U | U | U | U | U | U | U | 0.00453 J | 0.0018 J | U | U | U | U | U |
| Benzo(a)anthracene | - | 1.1 | - | 0.63 | 10 | 10 | U | U | U | U | 0.271 J4 | U | U | U | U | U | U | U | U | U |
| Benzo(b)fluoranthene | - | 1.1 | - | 1.1 | 5.4 | 75 | U | U | U | U | 0.394 J4 | U | U | U | U | U | U | U | U | U |
| Benzo(k)fluoranthene | - | 11 | - | 2.8 | 4.8 | 39 | U | U | U | U | 0.148 J4 | U | U | U | U | U | U | U | U | U |
| Benzo(g,h,i)perylene | - | - | - | 2.5 | 27 | 27 | U | U | U | U | 0.134 J4 | U | U | U | U | U | U | U | U | U |
| Benzo(a)pyrene | - | 0.11 | 18 | 0.11 | 5.7 | 5.7 | U | U | U | U | 0.288 J4 | U | U | U | U | U | U | U | U | U |
| Chrysene | - | 110 | - | 2.2 | 2.2 | 10 | U | U | U | U | 0.356 J4 | U | U | U | U | U | U | U | U | U |
| Dibenz(a,h)anthracene | - | 0.028 | - | 0.11 | 29 | 390 | U | U | U | U | 0.0416 J4 | U | U | U | U | U | U | U | U | U |
| Fluoranthene | - | - | 2,400 | 0.69 | 86 | 86 | U | U | U | U | 0.0757 J4 | U | U | U | U | U | U | U | U | U |
| Indeno(1,2,3-cd)pyrene | - | 1.1 | - | 0.48 | 16 | 32 | U | U | U | U | 0.149 J4 | U | U | U | U | U | U | U | U | U |
| Pyrene | - | - | 1,800 | 45 | 45 | 45 | U | U | U | U | 0.126 J4 | U | U | U | U | U | U | U | U | U |

| | | | | | | | Discrete Soil Samples | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Client Sample ID | Southern California Background Arsenic Concentration | HHRA Note 3 DTSC HERO HHRA Screening Level for Residential Soil Cancer Endpoint | HHRA Note 3 DTSC HERO HHRA Screening Level for Residential Soil Non-Cancer Endpoint | SFBRWCB Tier 1 Residential Shallow Soil Exposure ESLs | SFBRWCB Tier 1 Leaching to Groundwater Levels Drinking Water | SFBRWCB Tier 1 Leaching to Groundwater Levels Non-Drinking Water | AREA2-1-0.5 | AREA2-2-0.5 | AREA2-3-0.5 | AREA2-4-0.5 | AREA2-5-0.5 |
| Date Collected | | | | | | | 9/9/2024 | 9/9/2024 | 9/10/2024 | 9/10/2024 | 9/9/2024 |
| Medium | | | | | | | Soil | Soil | Soil | Soil | Soil |
| Depth | | | | | | | 0-0.5 ft bgs | 0-0.5 ft bgs | 0-0.5 ft bgs | 0-0.5 ft bgs | 0-0.5 ft bgs |
| Unit | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| **Metals** | | | | | | | | | | | |
| Arsenic | 12 | 0.11 | 0.41 | 0.067 | - | - | 12.7 | 15.4 | 11.8 | 18.5 | 13.9 |

Notes:

| | |
|---|---|
| | The analytical result is greater than the applicable Southern California Background Arsenic Concentration |
| | The analytical result is greater than the applicable HHRA Note 3 DTSC HERO HHRA Screening Level for Residential Soil Cancer Endpoint |
| | The analytical result is greater than the applicable HHRA Note 3 DTSC HERO HHRA Screening Level for Residential Soil Non-Cancer Endpoint |
| | The analytical result is greater than the applicable SFBRWCB Tier 1 ESLs |
| | The analytical result is greater than the applicable SFBRWCB Tier 1 Leaching to Groundwater Levels Drinking Water |
| | The analytical result is greater than the applicable SFBRWCB Tier 1 Leaching to Groundwater Levels Non-Drinking Water |
| SFBRWCB | San Francisco Bay Regional Water Quality Control Board |
| DTSC | Department of Toxic Substances Control |
| ESL | Environmental Screening Level |
| HHRA | Human Health Risk Assessment |
| HERO | Human and Ecological Risk Office |
| ft | feet |
| B | The same analyte is found in the associated blank |
| J3 | The associated batch QC was outside the established quality control range for precision |
| J4 | The associated batch QC was outside the established quality control range for accuracy |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low |
| J | The identification of the analyte is acceptable; the reported value is an estimate |
| O1 | The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicatematrix interference |
| bgs | below ground surface |
| mg/kg | milligrams per kilogram |
| U | Analyte not detected above method detection limit |
| - | Not Established |
| * | Most stringent Total Petroleum Hydrocarbon value available |
| ** | Re-analysis results |

*This table only depicts the concentrations of detected analytes from Tetra Tech's Limited Phase II ESA conducted in September 2024.*

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# EXHIBIT 3

## Laboratory Data Package

# ANALYTICAL REPORT

September 17, 2024

## Tetra Tech EMI - Houston, TX

Samp e e er roup: L1775989

Samp es ece ed: 09/10/2024

Project umber:

escr pt on: Horton - C e er Cross ng Phase II

eport To: ana E dam/Manue a Pastrano
1500 C t est ou e ard
Su te 1000
Houston, TX 77042

Ent re eport e e ed :

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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## A EA1-C MP L1775989-11 So d

Collected by: Maxx Wlodarczyk
Collected date/time: 09/09/24 09:10
Received date/time: 09/10/24 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2360050 | 1 | 09/11/24 08:13 | 09/11/24 08:21 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2360121 | 1 | 09/11/24 09:34 | 09/11/24 22:57 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2360201 | 1 | 09/16/24 17:33 | 09/17/24 09:10 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2360851 | 28 | 09/09/24 09:10 | 09/11/24 23:16 | JHH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2360780 | 1.12 | 09/09/24 09:10 | 09/11/24 21:30 | DWR | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2361146 | 1 | 09/13/24 13:11 | 09/14/24 08:55 | KKS | Mt. Juliet, TN |
| Chlorinated Acid Herbicides (GC) by Method 8151 | WG2360814 | 1 | 09/13/24 04:03 | 09/13/24 20:38 | LJD | Mt. Juliet, TN |
| Chlorinated Acid Herbicides (GC) by Method 8151 | WG2360814 | 1 | 09/13/24 04:03 | 09/16/24 17:57 | NWH | Mt. Juliet, TN |
| OP Pesticides by Method 8141 | WG2359686 | 1 | 09/11/24 23:38 | 09/13/24 16:19 | MEW | Mt. Juliet, TN |
| Pesticides (GC) by Method 8081 | WG2360659 | 1 | 09/11/24 17:03 | 09/13/24 00:33 | AMM | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2360980 | 2 | 09/13/24 07:00 | 09/14/24 21:30 | AMS | Mt. Juliet, TN |

# CASE A ATI E

A samp e a uots ere rece ed at the correct temperature, n the proper conta ners, th the appropr ate preser at es, and th n method spec f ed ho d ng t mes, un ess ua f ed or notated th n the report here app cab e, a M L L and L L a ues reported for en ronmenta samp es ha e been corrected for the d ut on factor used n the ana s s A Method and atch ua t Contro are th n estab shed cr ter a e cept here addressed n th s case narrat e, a non-conformance form or proper ua f ed th n the samp e resu ts m d g ta s gnature be o , l aff rm to the best of m no edge, a prob ems/anoma es obser ed b the aborator as ha ng the potent a to affect the ua t of the data ha e been dent f ed b the aborator , and no nformat on or data ha e been no ng thhe d that ou d affect the ua t of the data

Chad A Upchurch
Project Manager

## Tota So ds b Method 2540 -2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.7 | | 1 | 09/11/2024 08:21 | WG2360050 |

## Mercur b Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | U | | 0.0184 | 0.0410 | 1 | 09/11/2024 22:57 | WG2360121 |

## Meta s ICP b Method 6010

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 9.16 | | 0.530 | 2.05 | 1 | 09/17/2024 09:10 | WG2360201 |
| Barium | 172 | | 0.0872 | 0.512 | 1 | 09/17/2024 09:10 | WG2360201 |
| Cadmium | U | | 0.0482 | 0.512 | 1 | 09/17/2024 09:10 | WG2360201 |
| Chromium | 41.9 | | 0.136 | 1.02 | 1 | 09/17/2024 09:10 | WG2360201 |
| Lead | 13.1 | | 0.213 | 0.512 | 1 | 09/17/2024 09:10 | WG2360201 |
| Selenium | 1.38 | _ | 0.782 | 2.05 | 1 | 09/17/2024 09:10 | WG2360201 |
| Silver | 0.395 | _ | 0.130 | 1.02 | 1 | 09/17/2024 09:10 | WG2360201 |

## o at e rgan c Compounds C b Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 4.34 | _ | 0.972 | 2.93 | 28 | 09/11/2024 23:16 | WG2360851 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *96.8* | | | *77.0-120* | | *09/11/2024 23:16* | WG2360851 |

## o at e rgan c Compounds C/MS b Method 8260

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0428 | 0.0585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Acrylonitrile | U | | 0.00422 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Benzene | U | | 0.000547 | 0.00117 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Bromobenzene | U | | 0.00106 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Bromodichloromethane | U | | 0.000849 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Bromoform | U | | 0.00137 | 0.0293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Bromomethane | U | | 0.00231 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| n-Butylbenzene | U | | 0.00615 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| sec-Butylbenzene | U | | 0.00338 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| tert-Butylbenzene | U | | 0.00228 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Carbon tetrachloride | U | | 0.00106 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Chlorobenzene | U | | 0.000246 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Chlorodibromomethane | U | | 0.000716 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Chloroethane | U | | 0.00199 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Chloroform | U | | 0.00120 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Chloromethane | U | | 0.00509 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 2-Chlorotoluene | U | | 0.00101 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 4-Chlorotoluene | U | | 0.000527 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00457 | 0.0293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,2-Dibromoethane | U | | 0.000759 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Dibromomethane | U | | 0.000878 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,2-Dichlorobenzene | U | | 0.000498 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,3-Dichlorobenzene | U | | 0.000702 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,4-Dichlorobenzene | U | | 0.000820 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Dichlorodifluoromethane | U | | 0.00188 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,1-Dichloroethane | U | | 0.000575 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |

## o at e rgan c Compounds C/MS b Method 8260

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | U | | 0.000760 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,1-Dichloroethene | U | | 0.000710 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| cis-1,2-Dichloroethene | U | | 0.000859 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| trans-1,2-Dichloroethene | U | | 0.00121 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,2-Dichloropropane | U | | 0.00166 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,1-Dichloropropene | U | | 0.000947 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,3-Dichloropropane | U | | 0.000586 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| cis-1,3-Dichloropropene | U | | 0.000886 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| trans-1,3-Dichloropropene | U | | 0.00134 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 2,2-Dichloropropane | U | | 0.00162 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Di-isopropyl ether | U | | 0.000480 | 0.00117 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Ethylbenzene | U | | 0.000862 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Hexachloro-1,3-butadiene | U | | 0.00702 | 0.0293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Isopropylbenzene | U | | 0.000498 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| p-Isopropyltoluene | U | | 0.00299 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 2-Butanone (MEK) | U | | 0.0743 | 0.117 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Methylene Chloride | U | | 0.00778 | 0.0293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00267 | 0.0293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Methyl tert-butyl ether | U | | 0.000410 | 0.00117 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Naphthalene | U | | 0.00572 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| n-Propylbenzene | U | | 0.00111 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Styrene | U | | 0.000268 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00111 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000813 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000882 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Tetrachloroethene | U | | 0.00105 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Toluene | U | | 0.00153 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,2,3-Trichlorobenzene | U | | 0.00858 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,2,4-Trichlorobenzene | U | | 0.00515 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,1,1-Trichloroethane | U | 4 | 0.00108 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,1,2-Trichloroethane | U | | 0.000699 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Trichloroethene | U | | 0.000684 | 0.00117 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Trichlorofluoromethane | U | | 0.000968 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,2,3-Trichloropropane | U | | 0.00189 | 0.0146 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,2,4-Trimethylbenzene | U | | 0.00185 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,2,3-Trimethylbenzene | U | | 0.00185 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| 1,3,5-Trimethylbenzene | U | | 0.00234 | 0.00585 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Vinyl chloride | U | | 0.00136 | 0.00293 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| Xylenes, Total | U | | 0.00103 | 0.00761 | 1.12 | 09/11/2024 21:30 | WG2360780 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | | *09/11/2024 21:30* | WG2360780 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | | *09/11/2024 21:30* | WG2360780 |
| *(S) 1,2-Dichloroethane-d4* | *96.3* | | | *70.0-130* | | *09/11/2024 21:30* | WG2360780 |

## Sem - o at e rgan c Compounds C b Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 9.32 | | 0.751 | 4.10 | 1 | 09/14/2024 08:55 | WG2361146 |
| *(S) o-Terphenyl* | *61.6* | | | *18.0-148* | | *09/14/2024 08:55* | WG2361146 |

## Ch or nated Ac d Herb c des C b Method 8151

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-D | U | 4 | 0.00719 | 0.0717 | 1 | 09/13/2024 20:38 | WG2360814 |
| Dalapon | U | | 0.0116 | 0.0717 | 1 | 09/16/2024 17:57 | WG2360814 |
| 2,4-DB | U | | 0.0304 | 0.0717 | 1 | 09/13/2024 20:38 | WG2360814 |
| Dicamba | U | | 0.0161 | 0.0717 | 1 | 09/13/2024 20:38 | WG2360814 |
| Dichloroprop | U | | 0.0251 | 0.0717 | 1 | 09/13/2024 20:38 | WG2360814 |
| Dinoseb | U | | 0.00714 | 0.0717 | 1 | 09/13/2024 20:38 | WG2360814 |
| MCPA | U | | 0.454 | 6.66 | 1 | 09/13/2024 20:38 | WG2360814 |
| MCPP | U | | 0.376 | 6.66 | 1 | 09/13/2024 20:38 | WG2360814 |
| 2,4,5-T | U | | 0.00872 | 0.0717 | 1 | 09/13/2024 20:38 | WG2360814 |
| 2,4,5-TP (Silvex) | U | | 0.0110 | 0.0717 | 1 | 09/13/2024 20:38 | WG2360814 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *90.3* | | | *22.0-132* | | *09/13/2024 20:38* | WG2360814 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *81.2* | | | *22.0-132* | | *09/16/2024 17:57* | WG2360814 |

## P Pest c des b Method 8141

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | U | | 0.0326 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Bolstar (Sulprofos) | U | | 0.0153 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Chlorpyrifos | U | | 0.0161 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Coumaphos | U | | 0.0249 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Demeton,-O and -S | U | | 0.00598 | 0.0717 | 1 | 09/13/2024 16:19 | WG2359686 |
| Diazinon | U | | 0.0230 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Dichlorvos | U | | 0.0307 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Dimethoate | U | | 0.0342 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Disulfoton | U | | 0.0260 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| EPN | U | | 0.0283 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Ethoprop | U | | 0.0121 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Ethyl Parathion | U | | 0.0168 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Fensulfothion | U | | 0.0361 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Fenthion | U | | 0.0136 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Malathion | U | | 0.0183 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Merphos | U | | 0.0238 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Methyl parathion | U | | 0.0208 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Mevinphos | U | | 0.0236 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Naled | U | | 0.0492 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Phorate | U | | 0.0215 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Ronnel | U | | 0.0153 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Stirophos | U | | 0.0182 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Sulfotep | U | | 0.0101 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| TEPP | U | 4 | 0.161 | 1.02 | 1 | 09/13/2024 16:19 | WG2359686 |
| Tokuthion (Prothothiofos) | U | | 0.0154 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| Trichloronate | U | | 0.0206 | 0.102 | 1 | 09/13/2024 16:19 | WG2359686 |
| *(S) Triphenyl Phosphate* | *117* | | | *36.0-121* | | *09/13/2024 16:19* | WG2359686 |

## Pest c des C b Method 8081

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Aldrin | U | | 0.00385 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Alpha BHC | U | | 0.00377 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Beta BHC | U | | 0.00388 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Delta BHC | U | | 0.00354 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Gamma BHC | U | | 0.00352 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| 4,4-DDD | U | | 0.00379 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| 4,4-DDE | U | | 0.00375 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |

## Pest c des C b Method 8081

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4,4-DDT | U | | 0.00642 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Dieldrin | U | | 0.00352 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Endosulfan I | U | | 0.00372 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Endosulfan II | U | | 0.00343 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Endosulfan sulfate | U | | 0.00373 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Endrin | U | | 0.00358 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Endrin aldehyde | U | | 0.00347 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Endrin ketone | U | | 0.00728 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Heptachlor | U | | 0.00438 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Heptachlor epoxide | U | | 0.00347 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Hexachlorobenzene | U | | 0.00354 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Methoxychlor | U | | 0.00496 | 0.0205 | 1 | 09/13/2024 00:33 | WG2360659 |
| Chlordane | U | | 0.105 | 0.307 | 1 | 09/13/2024 00:33 | WG2360659 |
| Toxaphene | U | | 0.127 | 0.410 | 1 | 09/13/2024 00:33 | WG2360659 |
| *(S) Decachlorobiphenyl* | *97.6* | | | *10.0-135* | | *09/13/2024 00:33* | WG2360659 |
| *(S) Tetrachloro-m-xylene* | *85.1* | | | *10.0-139* | | *09/13/2024 00:33* | WG2360659 |

## Sem o at e rgan c Compounds C/MS b Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0111 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Acenaphthylene | U | | 0.00960 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Anthracene | U | | 0.0122 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Benzidine | U | | 0.128 | 3.42 | 2 | 09/14/2024 21:30 | WG2360980 |
| Benzo(a)anthracene | U | | 0.0120 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Benzo(b)fluoranthene | U | | 0.0127 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Benzo(k)fluoranthene | U | | 0.0121 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Benzo(g,h,i)perylene | U | | 0.0125 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Benzo(a)pyrene | U | | 0.0127 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Bis(2-chlorethoxy)methane | U | | 0.0205 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Bis(2-chloroethyl)ether | U | | 0.0225 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0295 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 4-Bromophenyl-phenylether | U | | 0.0240 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2-Chloronaphthalene | U | | 0.0120 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 4-Chlorophenyl-phenylether | U | | 0.0238 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Chrysene | U | | 0.0135 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Dibenz(a,h)anthracene | U | | 0.0189 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 3,3-Dichlorobenzidine | U | | 0.0252 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2,4-Dinitrotoluene | U | | 0.0196 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2,6-Dinitrotoluene | U | | 0.0223 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Fluoranthene | U | | 0.0123 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Fluorene | U | | 0.0111 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Hexachlorobenzene | U | | 0.0242 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Hexachloro-1,3-butadiene | U | | 0.0229 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Hexachlorocyclopentadiene | U | | 0.0358 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Hexachloroethane | U | | 0.0268 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0193 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Isophorone | U | | 0.0209 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Naphthalene | U | | 0.0171 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Nitrobenzene | U | | 0.0238 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| n-Nitrosodimethylamine | U | | 0.101 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| n-Nitrosodiphenylamine | U | | 0.0516 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| n-Nitrosodi-n-propylamine | U | | 0.0227 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Phenanthrene | U | | 0.0135 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Benzylbutyl phthalate | U | | 0.0213 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0864 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |

## Sem o at e rgan c Compounds C/MS b Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Di-n-butyl phthalate | U | | 0.0233 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Diethyl phthalate | U | | 0.0225 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Dimethyl phthalate | U | | 0.144 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Di-n-octyl phthalate | U | | 0.0461 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Pyrene | U | | 0.0133 | 0.0682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 1,2,4-Trichlorobenzene | U | | 0.0213 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 4-Chloro-3-methylphenol | U | | 0.0221 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2-Chlorophenol | U | | 0.0225 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2,4-Dichlorophenol | U | | 0.0199 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2,4-Dimethylphenol | U | | 0.0178 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 4,6-Dinitro-2-methylphenol | U | | 0.155 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2,4-Dinitrophenol | U | | 0.160 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2-Nitrophenol | U | | 0.0244 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 4-Nitrophenol | U | | 0.0213 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Pentachlorophenol | U | | 0.0183 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| Phenol | U | | 0.0274 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| 2,4,6-Trichlorophenol | U | | 0.0219 | 0.682 | 2 | 09/14/2024 21:30 | WG2360980 |
| *(S) 2-Fluorophenol* | *72.8* | | | *12.0-120* | | *09/14/2024 21:30* | WG2360980 |
| *(S) Phenol-d5* | *66.4* | | | *10.0-120* | | *09/14/2024 21:30* | WG2360980 |
| *(S) Nitrobenzene-d5* | *78.2* | | | *10.0-122* | | *09/14/2024 21:30* | WG2360980 |
| *(S) 2-Fluorobiphenyl* | *73.9* | | | *15.0-120* | | *09/14/2024 21:30* | WG2360980 |
| *(S) 2,4,6-Tribromophenol* | *96.9* | | | *10.0-127* | | *09/14/2024 21:30* | WG2360980 |
| *(S) p-Terphenyl-d14* | *78.8* | | | *10.0-120* | | *09/14/2024 21:30* | WG2360980 |

**Sample Narrative:**

L1775989-11 WG2360980: Dilution due to matrix impact during extract concentration procedure.

## Method an M

M 4118459-1 09/11/24 08:21

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1775908-04 r g na Samp e S up cate UP

S L1775908-04 09/11/24 08:21 UP 4118459-3 09/11/24 08:21

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 91.9 | 91.3 | 1 | 0.725 | | 10 |

## Laborator Contro Samp e LCS

LCS 4118459-2 09/11/24 08:21

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 49.9 | 99.9 | 90.0-110 | |

## Method an M

M 4118781-1 09/11/24 22:09

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Mercury | U | | 0.0180 | 0.0400 |

## Laborator Contro Samp e LCS

LCS 4118781-2 09/11/24 22:11

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| Analyte | mg/kg | mg/kg | % | % | |
| Mercury | 0.500 | 0.419 | 83.7 | 80.0-120 | |

## L1775742-06 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775742-06 09/11/24 22:19 MS 4118781-4 09/11/24 22:24 MS 4118781-5 09/11/24 22:26

| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Mercury | 0.628 | U | 0.560 | 0.511 | 89.2 | 81.3 | 1 | 75.0-125 | | | 9.24 | 20 |

## Method an M

M 4120789-1 09/17/24 08:55

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Lead | U | | 0.208 | 0.500 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |

## Laborator Contro Samp e LCS

LCS 4120789-2 09/17/24 08:56

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 97.7 | 97.7 | 80.0-120 | |
| Barium | 100 | 99.6 | 99.6 | 80.0-120 | |
| Cadmium | 100 | 97.9 | 97.9 | 80.0-120 | |
| Chromium | 100 | 100 | 100 | 80.0-120 | |
| Lead | 100 | 96.6 | 96.6 | 80.0-120 | |
| Selenium | 100 | 94.7 | 94.7 | 80.0-120 | |
| Silver | 20.0 | 19.2 | 96.2 | 80.0-120 | |

## L1776003-13 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776003-13 09/17/24 08:58 MS 4120789-5 09/17/24 09:03 MS 4120789-6 09/17/24 09:05

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 103 | 6.77 | 108 | 109 | 98.2 | 98.8 | 1 | 75.0-125 | | | 0.581 | 20 |
| Barium | 103 | 91.2 | 209 | 202 | 114 | 108 | 1 | 75.0-125 | | | 3.21 | 20 |
| Cadmium | 103 | U | 101 | 101 | 98.2 | 97.8 | 1 | 75.0-125 | | | 0.371 | 20 |
| Chromium | 103 | 23.4 | 130 | 129 | 103 | 103 | 1 | 75.0-125 | | | 0.0291 | 20 |
| Lead | 103 | 12.7 | 116 | 115 | 99.9 | 99.6 | 1 | 75.0-125 | | | 0.319 | 20 |
| Selenium | 103 | U | 100 | 101 | 97.4 | 97.7 | 1 | 75.0-125 | | | 0.295 | 20 |
| Silver | 20.6 | 1.52 | 22.5 | 22.4 | 102 | 101 | 1 | 75.0-125 | | | 0.555 | 20 |

## Method an M

M 4119584-3 09/11/24 22:02

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 2.15 | _ | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *94.9* | | | *77.0-120* |

## Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4119584-1 09/11/24 20:45 LCS 4119584-2 09/11/24 21:05

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.60 | 4.57 | 92.0 | 91.4 | 72.0-125 | | | 0.654 | 20 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | *100* | *99.3* | *77.0-120* | | | | |

## L1775212-12 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775212-12 09/12/24 04:45 MS 4119584-4 09/12/24 05:04 MS 4119584-5 09/12/24 05:23

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TPHG C5 - C12 | 121 | 1.93 | 120 | 121 | 97.3 | 98.4 | 25 | 10.0-141 | | | 1.11 | 29 |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | | | *99.3* | *101* | | *77.0-120* | | | | |

## Method an M

M 4118782-3 09/11/24 17:39

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method an M

M 4118782-3 09/11/24 17:39

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *99.8* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *99.6* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *98.8* | | | *70.0-130* |

## Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4118782-1 09/11/24 16:04 LCS 4118782-2 09/11/24 16:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.567 | 0.542 | 90.7 | 86.7 | 10.0-160 | | | 4.51 | 31 |
| Acrylonitrile | 0.625 | 0.552 | 0.513 | 88.3 | 82.1 | 45.0-153 | | | 7.32 | 22 |
| Benzene | 0.125 | 0.125 | 0.122 | 100 | 97.6 | 70.0-123 | | | 2.43 | 20 |
| Bromobenzene | 0.125 | 0.128 | 0.133 | 102 | 106 | 73.0-121 | | | 3.83 | 20 |
| Bromodichloromethane | 0.125 | 0.132 | 0.129 | 106 | 103 | 73.0-121 | | | 2.30 | 20 |

## Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4118782-1 09/11/24 16:04 LCS 4118782-2 09/11/24 16:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.126 | 0.130 | 101 | 104 | 64.0-132 | | | 3.12 | 20 |
| Bromomethane | 0.125 | 0.112 | 0.109 | 89.6 | 87.2 | 56.0-147 | | | 2.71 | 20 |
| n-Butylbenzene | 0.125 | 0.117 | 0.122 | 93.6 | 97.6 | 68.0-135 | | | 4.18 | 20 |
| sec-Butylbenzene | 0.125 | 0.126 | 0.124 | 101 | 99.2 | 74.0-130 | | | 1.60 | 20 |
| tert-Butylbenzene | 0.125 | 0.126 | 0.131 | 101 | 105 | 75.0-127 | | | 3.89 | 20 |
| Carbon tetrachloride | 0.125 | 0.155 | 0.159 | 124 | 127 | 66.0-128 | | | 2.55 | 20 |
| Chlorobenzene | 0.125 | 0.119 | 0.123 | 95.2 | 98.4 | 76.0-128 | | | 3.31 | 20 |
| Chlorodibromomethane | 0.125 | 0.126 | 0.126 | 101 | 101 | 74.0-127 | | | 0.000 | 20 |
| Chloroethane | 0.125 | 0.140 | 0.136 | 112 | 109 | 61.0-134 | | | 2.90 | 20 |
| Chloroform | 0.125 | 0.132 | 0.136 | 106 | 109 | 72.0-123 | | | 2.99 | 20 |
| Chloromethane | 0.125 | 0.120 | 0.120 | 96.0 | 96.0 | 51.0-138 | | | 0.000 | 20 |
| 2-Chlorotoluene | 0.125 | 0.118 | 0.122 | 94.4 | 97.6 | 75.0-124 | | | 3.33 | 20 |
| 4-Chlorotoluene | 0.125 | 0.108 | 0.105 | 86.4 | 84.0 | 75.0-124 | | | 2.82 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.0992 | 0.0929 | 79.4 | 74.3 | 59.0-130 | | | 6.56 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.119 | 0.121 | 95.2 | 96.8 | 74.0-128 | | | 1.67 | 20 |
| Dibromomethane | 0.125 | 0.131 | 0.126 | 105 | 101 | 75.0-122 | | | 3.89 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.116 | 0.124 | 92.8 | 99.2 | 76.0-124 | | | 6.67 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.121 | 0.124 | 96.8 | 99.2 | 76.0-125 | | | 2.45 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.116 | 0.120 | 92.8 | 96.0 | 77.0-121 | | | 3.39 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.144 | 0.144 | 115 | 115 | 43.0-156 | | | 0.000 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.136 | 0.132 | 109 | 106 | 70.0-127 | | | 2.99 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.128 | 0.124 | 102 | 99.2 | 65.0-131 | | | 3.17 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.141 | 0.137 | 113 | 110 | 65.0-131 | | | 2.88 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.120 | 0.124 | 96.0 | 99.2 | 73.0-125 | | | 3.28 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.135 | 0.134 | 108 | 107 | 71.0-125 | | | 0.743 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.132 | 0.129 | 106 | 103 | 74.0-125 | | | 2.30 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.155 | 0.150 | 124 | 120 | 73.0-125 | | | 3.28 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.126 | 0.127 | 101 | 102 | 80.0-125 | | | 0.791 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.137 | 0.137 | 110 | 110 | 76.0-127 | | | 0.000 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.128 | 0.129 | 102 | 103 | 73.0-127 | | | 0.778 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.156 | 0.152 | 125 | 122 | 59.0-135 | | | 2.60 | 20 |
| Di-isopropyl ether | 0.125 | 0.126 | 0.130 | 101 | 104 | 60.0-136 | | | 3.12 | 20 |
| Ethylbenzene | 0.125 | 0.123 | 0.125 | 98.4 | 100 | 74.0-126 | | | 1.61 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.164 | 0.173 | 131 | 138 | 57.0-150 | | | 5.34 | 20 |
| Isopropylbenzene | 0.125 | 0.121 | 0.123 | 96.8 | 98.4 | 72.0-127 | | | 1.64 | 20 |
| p-Isopropyltoluene | 0.125 | 0.123 | 0.126 | 98.4 | 101 | 72.0-133 | | | 2.41 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.593 | 0.555 | 94.9 | 88.8 | 30.0-160 | | | 6.62 | 24 |
| Methylene Chloride | 0.125 | 0.127 | 0.130 | 102 | 104 | 68.0-123 | | | 2.33 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.586 | 0.595 | 93.8 | 95.2 | 56.0-143 | | | 1.52 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.121 | 0.125 | 96.8 | 100 | 66.0-132 | | | 3.25 | 20 |

## Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4118782-1 09/11/24 16:04 LCS 4118782-2 09/11/24 16:23

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0886 | 0.0979 | 70.9 | 78.3 | 59.0-130 | | | 9.97 | 20 |
| n-Propylbenzene | 0.125 | 0.133 | 0.137 | 106 | 110 | 74.0-126 | | | 2.96 | 20 |
| Styrene | 0.125 | 0.111 | 0.116 | 88.8 | 92.8 | 72.0-127 | | | 4.41 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.122 | 0.125 | 97.6 | 100 | 74.0-129 | | | 2.43 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.129 | 0.126 | 103 | 101 | 68.0-128 | | | 2.35 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.168 | 0.168 | 134 | 134 | 61.0-139 | | | 0.000 | 20 |
| Tetrachloroethene | 0.125 | 0.141 | 0.146 | 113 | 117 | 70.0-136 | | | 3.48 | 20 |
| Toluene | 0.125 | 0.121 | 0.125 | 96.8 | 100 | 75.0-121 | | | 3.25 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.118 | 0.119 | 94.4 | 95.2 | 59.0-139 | | | 0.844 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.116 | 0.121 | 92.8 | 96.8 | 62.0-137 | | | 4.22 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.156 | 0.160 | 125 | 128 | 69.0-126 | | 4 | 2.53 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.121 | 0.120 | 96.8 | 96.0 | 78.0-123 | | | 0.830 | 20 |
| Trichloroethene | 0.125 | 0.126 | 0.132 | 101 | 106 | 76.0-126 | | | 4.65 | 20 |
| Trichlorofluoromethane | 0.125 | 0.139 | 0.146 | 111 | 117 | 61.0-142 | | | 4.91 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.127 | 0.128 | 102 | 102 | 67.0-129 | | | 0.784 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.116 | 0.114 | 92.8 | 91.2 | 70.0-126 | | | 1.74 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.111 | 0.114 | 88.8 | 91.2 | 74.0-124 | | | 2.67 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.120 | 0.125 | 96.0 | 100 | 73.0-127 | | | 4.08 | 20 |
| Vinyl chloride | 0.125 | 0.127 | 0.120 | 102 | 96.0 | 63.0-134 | | | 5.67 | 20 |
| Xylenes, Total | 0.375 | 0.350 | 0.372 | 93.3 | 99.2 | 72.0-127 | | | 6.09 | 20 |
| *(S) Toluene-d8* | | | | *99.1* | *99.7* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *96.5* | *95.5* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *103* | *102* | *70.0-130* | | | | |

## Method an M

M 4119812-2 09/14/24 07:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| *(S) o-Terphenyl* | *79.4* | | | *18.0-148* |

## Laborator Contro Samp e LCS

LCS 4119812-1 09/13/24 19:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 50.0 | 28.2 | 56.4 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *64.4* | *18.0-148* | |

## L1775792-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775792-01 09/14/24 12:53 MS 4119854-1 09/14/24 13:06 MS 4119854-2 09/14/24 13:19

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 54.5 | 3.17 | 36.2 | 35.9 | 60.6 | 60.3 | 2 | 50.0-150 | | | 0.930 | 20 |
| *(S) o-Terphenyl* | | | | | *59.4* | *61.9* | | *18.0-148* | | | | |

## Method an M

M 4119914-1 09/13/24 16:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| 2,4-D | U | | 0.00702 | 0.0700 |
| Dalapon | U | | 0.0113 | 0.0700 |
| 2,4-DB | U | | 0.0297 | 0.0700 |
| Dicamba | U | | 0.0157 | 0.0700 |
| Dichloroprop | U | | 0.0245 | 0.0700 |
| Dinoseb | U | | 0.00697 | 0.0700 |
| MCPA | U | | 0.443 | 6.50 |
| MCPP | U | | 0.367 | 6.50 |
| 2,4,5-T | U | | 0.00852 | 0.0700 |
| 2,4,5-TP (Silvex) | U | | 0.0107 | 0.0700 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *80.8* | | | *22.0-132* |

## Laborator Contro Samp e LCS

LCS 4119914-2 09/13/24 17:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,4-D | 0.0833 | 0.114 | 137 | 40.0-120 | 4 |
| Dalapon | 0.0833 | 0.0770 | 92.4 | 15.0-120 | |
| 2,4-DB | 0.0833 | 0.0858 | 103 | 25.0-143 | |
| Dicamba | 0.0833 | 0.0747 | 89.7 | 43.0-120 | |
| Dichloroprop | 0.0833 | 0.0745 | 89.4 | 32.0-129 | |
| Dinoseb | 0.0833 | 0.0224 | 26.9 | 10.0-120 | |
| MCPA | 8.33 | 8.23 | 98.8 | 31.0-121 | |
| MCPP | 8.33 | 7.22 | 86.7 | 28.0-133 | |
| 2,4,5-T | 0.0833 | 0.0850 | 102 | 41.0-120 | |
| 2,4,5-TP (Silvex) | 0.0833 | 0.0689 | 82.7 | 42.0-120 | |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | | | *83.8* | *22.0-132* | |

## L1776587-11 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776587-11 09/13/24 21:00 MS 4119914-3 09/13/24 21:12 MS 4119914-4 09/13/24 21:23

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.0848 | U | 0.105 | 0.106 | 124 | 125 | 1 | 10.0-160 | | | 0.966 | 24 |
| Dalapon | 0.0848 | U | 0.0583 | 0.0528 | 68.7 | 62.1 | 1 | 10.0-121 | | | 9.75 | 27 |
| 2,4-DB | 0.0848 | U | 0.0516 | 0.0557 | 60.8 | 65.4 | 1 | 10.0-160 | | | 7.62 | 22 |

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## L1776587-11 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776587-11 09/13/24 21:00 MS 4119914-3 09/13/24 21:12 MS 4119914-4 09/13/24 21:23

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Dicamba | 0.0848 | U | 0.0579 | 0.0553 | 68.2 | 64.9 | 1 | 10.0-154 | | | 4.52 | 21 |
| Dichloroprop | 0.0848 | U | 0.0642 | 0.0654 | 75.7 | 76.8 | 1 | 10.0-158 | | | 1.89 | 20 |
| Dinoseb | 0.0848 | U | 0.0447 | 0.0509 | 52.7 | 59.8 | 1 | 10.0-120 | | | 13.0 | 40 |
| MCPA | 8.48 | U | 15.3 | 14.5 | 181 | 170 | 1 | 10.0-160 | 5 | 5 | 5.48 | 40 |
| MCPP | 8.48 | U | 10.0 | 8.11 | 118 | 95.2 | 1 | 10.0-160 | | | 21.4 | 40 |
| 2,4,5-T | 0.0848 | U | 0.0732 | 0.0744 | 86.3 | 87.4 | 1 | 10.0-157 | | | 1.66 | 20 |
| 2,4,5-TP (Silvex) | 0.0848 | U | 0.0601 | 0.0628 | 70.8 | 73.7 | 1 | 10.0-156 | | | 4.33 | 20 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | | | | | *74.1* | *74.9* | | *22.0-132* | | | | |

## Method an M

M 4119330-1 09/12/24 10:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Azinphos-Methyl | U | | 0.0318 | 0.100 |
| Bolstar (Sulprofos) | U | | 0.0149 | 0.100 |
| Chlorpyrifos | U | | 0.0157 | 0.100 |
| Coumaphos | U | | 0.0243 | 0.100 |
| Demeton,-O and -S | U | | 0.00584 | 0.0700 |
| Diazinon | U | | 0.0225 | 0.100 |
| Dichlorvos | U | | 0.0300 | 0.100 |
| Dimethoate | U | | 0.0334 | 0.100 |
| Disulfoton | U | | 0.0254 | 0.100 |
| EPN | U | | 0.0276 | 0.100 |
| Ethoprop | U | | 0.0118 | 0.100 |
| Ethyl Parathion | U | | 0.0164 | 0.100 |
| Fensulfothion | U | | 0.0353 | 0.100 |
| Fenthion | U | | 0.0133 | 0.100 |
| Malathion | U | | 0.0179 | 0.100 |
| Merphos | U | | 0.0232 | 0.100 |
| Methyl parathion | U | | 0.0203 | 0.100 |
| Mevinphos | U | | 0.0230 | 0.100 |
| Naled | U | | 0.0480 | 0.100 |
| Phorate | U | | 0.0210 | 0.100 |
| Ronnel | U | | 0.0149 | 0.100 |
| Stirophos | U | | 0.0178 | 0.100 |
| Sulfotep | U | | 0.00986 | 0.100 |
| TEPP | U | | 0.157 | 1.00 |
| Tokuthion (Prothothiofos) | U | | 0.0150 | 0.100 |
| Trichloronate | U | | 0.0201 | 0.100 |
| *(S) Triphenyl Phosphate* | *114* | | | *36.0-121* |

## Laborator Contro Samp e LCS

LCS 4119330-2 09/12/24 11:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Azinphos-Methyl | 0.333 | 0.285 | 85.6 | 58.0-125 | |
| Bolstar (Sulprofos) | 0.333 | 0.307 | 92.2 | 64.0-120 | |
| Chlorpyrifos | 0.333 | 0.316 | 94.9 | 62.0-120 | |
| Coumaphos | 0.333 | 0.306 | 91.9 | 60.0-120 | |
| Demeton,-O and -S | 0.167 | 0.145 | 86.8 | 59.0-120 | |
| Diazinon | 0.333 | 0.307 | 92.2 | 49.0-120 | |

## Laborator Contro Samp e LCS

LCS 4119330-2 09/12/24 11:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Dichlorvos | 0.333 | 0.175 | 52.6 | 37.0-120 | |
| Dimethoate | 0.333 | 0.188 | 56.5 | 46.0-127 | |
| Disulfoton | 0.333 | 0.289 | 86.8 | 60.0-121 | |
| EPN | 0.333 | 0.319 | 95.8 | 60.0-121 | |
| Ethoprop | 0.333 | 0.311 | 93.4 | 59.0-120 | |
| Ethyl Parathion | 0.333 | 0.337 | 101 | 62.0-120 | |
| Fensulfothion | 0.333 | 0.214 | 64.3 | 58.0-123 | |
| Fenthion | 0.333 | 0.319 | 95.8 | 61.0-121 | |
| Malathion | 0.333 | 0.322 | 96.7 | 59.0-120 | |
| Merphos | 0.333 | 0.227 | 68.2 | 59.0-120 | |
| Methyl parathion | 0.333 | 0.303 | 91.0 | 63.0-120 | |
| Mevinphos | 0.333 | 0.216 | 64.9 | 50.0-120 | |
| Naled | 0.333 | 0.101 | 30.3 | 10.0-125 | |
| Phorate | 0.333 | 0.298 | 89.5 | 60.0-120 | |
| Ronnel | 0.333 | 0.286 | 85.9 | 62.0-120 | |
| Stirophos | 0.333 | 0.289 | 86.8 | 62.0-120 | |
| Sulfotep | 0.333 | 0.367 | 110 | 62.0-122 | |
| TEPP | 3.33 | 0.000 | 0.000 | 10.0-135 | 4 |
| Tokuthion (Prothothiofos) | 0.333 | 0.307 | 92.2 | 63.0-120 | |
| Trichloronate | 0.333 | 0.326 | 97.9 | 62.0-120 | |
| *(S) Triphenyl Phosphate* | | | *95.8* | *36.0-121* | |

## L1775071-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775071-01 09/12/24 11:58 MS 4119330-3 09/12/24 12:31 MS 4119330-4 09/12/24 13:04

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | 0.333 | U | 0.300 | 0.452 | 90.1 | 136 | 1 | 10.0-160 | | 3 | 40.4 | 22 |
| Bolstar (Sulprofos) | 0.333 | U | 0.303 | 0.462 | 91.0 | 139 | 1 | 10.0-151 | | 3 | 41.6 | 20 |
| Chlorpyrifos | 0.333 | U | 0.315 | 0.461 | 94.6 | 138 | 1 | 12.0-149 | | 3 | 37.6 | 20 |
| Coumaphos | 0.333 | U | 0.310 | 0.453 | 93.1 | 136 | 1 | 10.0-160 | | 3 | 37.5 | 22 |
| Demeton,-O and -S | 0.167 | U | 0.175 | U | 105 | 0.000 | 1 | 10.0-160 | | 3 6 | 200 | 23 |
| Diazinon | 0.333 | U | 0.310 | 0.394 | 93.1 | 118 | 1 | 11.0-157 | | 3 | 23.9 | 20 |
| Dichlorvos | 0.333 | U | 0.268 | 0.306 | 80.5 | 91.9 | 1 | 10.0-160 | | | 13.2 | 24 |
| Dimethoate | 0.333 | U | 0.306 | 0.467 | 91.9 | 140 | 1 | 10.0-150 | | 3 | 41.7 | 27 |
| Disulfoton | 0.333 | 0.191 | 0.490 | U | 89.8 | 0.000 | 1 | 12.0-155 | | 3 6 | 200 | 20 |
| EPN | 0.333 | U | 0.332 | 0.499 | 99.7 | 150 | 1 | 10.0-159 | | 3 | 40.2 | 20 |
| Ethoprop | 0.333 | U | 0.313 | 0.421 | 94.0 | 126 | 1 | 11.0-156 | | 3 | 29.4 | 20 |
| Ethyl Parathion | 0.333 | U | 0.349 | 0.520 | 105 | 156 | 1 | 10.0-147 | | 3 5 | 39.4 | 20 |

## L1775071-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775071-01 09/12/24 11:58 MS 4119330-3 09/12/24 12:31 MS 4119330-4 09/12/24 13:04

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fensulfothion | 0.333 | U | 0.313 | 0.455 | 94.0 | 137 | 1 | 10.0-157 | | 3 | 37.0 | 27 |
| Fenthion | 0.333 | U | 0.321 | 0.475 | 96.4 | 143 | 1 | 13.0-155 | | 3 | 38.7 | 20 |
| Malathion | 0.333 | U | 0.333 | 0.495 | 100 | 149 | 1 | 13.0-137 | | 3 5 | 39.1 | 21 |
| Merphos | 0.333 | U | 0.255 | 0.375 | 76.6 | 113 | 1 | 10.0-147 | | 3 | 38.1 | 26 |
| Methyl parathion | 0.333 | U | 0.310 | 0.462 | 93.1 | 139 | 1 | 10.0-150 | | 3 | 39.4 | 21 |
| Mevinphos | 0.333 | U | 0.260 | 0.309 | 78.1 | 92.8 | 1 | 10.0-158 | | | 17.2 | 24 |
| Naled | 0.333 | U | 0.206 | 0.230 | 61.9 | 69.1 | 1 | 10.0-137 | | | 11.0 | 40 |
| Phorate | 0.333 | U | 0.290 | 0.393 | 87.1 | 118 | 1 | 13.0-154 | | 3 | 30.2 | 20 |
| Ronnel | 0.333 | U | 0.305 | 0.428 | 91.6 | 129 | 1 | 14.0-149 | | 3 | 33.6 | 20 |
| Stirophos | 0.333 | U | 0.302 | 0.436 | 90.7 | 131 | 1 | 10.0-150 | | 3 | 36.3 | 20 |
| Sulfotep | 0.333 | U | 0.373 | 0.515 | 112 | 155 | 1 | 10.0-160 | | 3 | 32.0 | 20 |
| TEPP | 3.33 | U | 0.895 | 0.460 | 26.9 | 13.8 | 1 | 10.0-142 | | 3 | 64.2 | 28 |
| Tokuthion (Prothothiofos) | 0.333 | U | 0.305 | 0.457 | 91.6 | 137 | 1 | 12.0-153 | | 3 | 39.9 | 20 |
| Trichloronate | 0.333 | U | 0.319 | 0.455 | 95.8 | 137 | 1 | 12.0-152 | | 3 | 35.1 | 20 |
| *(S) Triphenyl Phosphate* | | | | | *98.2* | *139* | | *36.0-121* | | 1 | | |

## L1775074-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775074-01 09/12/24 14:44 MS 4119330-5 09/12/24 15:17 MS 4119330-6 09/12/24 15:50

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | 0.333 | U | 0.316 | 0.408 | 94.9 | 123 | 1 | 10.0-160 | | 3 | 25.4 | 22 |
| Bolstar (Sulprofos) | 0.333 | U | 0.337 | 0.435 | 101 | 131 | 1 | 10.0-151 | | 3 | 25.4 | 20 |
| Chlorpyrifos | 0.333 | U | 0.358 | 0.454 | 108 | 136 | 1 | 12.0-149 | | 3 | 23.6 | 20 |
| Coumaphos | 0.333 | U | 0.346 | 0.442 | 104 | 133 | 1 | 10.0-160 | | 3 | 24.4 | 22 |
| Demeton,-O and -S | 0.167 | U | 0.175 | 0.227 | 105 | 136 | 1 | 10.0-160 | | 3 | 25.9 | 23 |
| Diazinon | 0.333 | U | 0.346 | 0.444 | 104 | 133 | 1 | 11.0-157 | | 3 | 24.8 | 20 |
| Dichlorvos | 0.333 | U | 0.305 | 0.414 | 91.6 | 124 | 1 | 10.0-160 | | 3 | 30.3 | 24 |
| Dimethoate | 0.333 | U | 0.318 | 0.416 | 95.5 | 125 | 1 | 10.0-150 | | | 26.7 | 27 |
| Disulfoton | 0.333 | U | 0.305 | 0.399 | 91.6 | 120 | 1 | 12.0-155 | | 3 | 26.7 | 20 |
| EPN | 0.333 | U | 0.371 | 0.478 | 111 | 144 | 1 | 10.0-159 | | 3 | 25.2 | 20 |
| Ethoprop | 0.333 | U | 0.333 | 0.431 | 100 | 129 | 1 | 11.0-156 | | 3 | 25.7 | 20 |
| Ethyl Parathion | 0.333 | U | 0.389 | 0.505 | 117 | 152 | 1 | 10.0-147 | | 3 5 | 26.0 | 20 |
| Fensulfothion | 0.333 | U | 0.321 | 0.416 | 96.4 | 125 | 1 | 10.0-157 | | | 25.8 | 27 |
| Fenthion | 0.333 | U | 0.357 | 0.447 | 107 | 134 | 1 | 13.0-155 | | 3 | 22.4 | 20 |
| Malathion | 0.333 | U | 0.365 | 0.472 | 110 | 142 | 1 | 13.0-137 | | 3 5 | 25.6 | 21 |
| Merphos | 0.333 | U | 0.270 | 0.377 | 81.1 | 113 | 1 | 10.0-147 | | 3 | 33.1 | 26 |
| Methyl parathion | 0.333 | U | 0.346 | 0.441 | 104 | 132 | 1 | 10.0-150 | | 3 | 24.1 | 21 |
| Mevinphos | 0.333 | U | 0.218 | 0.291 | 65.5 | 87.4 | 1 | 10.0-158 | | 3 | 28.7 | 24 |

## L1775074-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775074-01 09/12/24 14:44 MS 4119330-5 09/12/24 15:17 MS 4119330-6 09/12/24 15:50

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Naled | 0.333 | U | 0.116 | 0.117 | 34.8 | 35.1 | 1 | 10.0-137 | | | 0.858 | 40 |
| Phorate | 0.333 | U | 0.294 | 0.401 | 88.3 | 120 | 1 | 13.0-154 | | 3 | 30.8 | 20 |
| Ronnel | 0.333 | U | 0.329 | 0.422 | 98.8 | 127 | 1 | 14.0-149 | | 3 | 24.8 | 20 |
| Stirophos | 0.333 | U | 0.334 | 0.425 | 100 | 128 | 1 | 10.0-150 | | 3 | 24.0 | 20 |
| Sulfotep | 0.333 | U | 0.406 | 0.521 | 122 | 156 | 1 | 10.0-160 | | 3 | 24.8 | 20 |
| TEPP | 3.33 | U | 0.475 | 0.569 | 14.3 | 17.1 | 1 | 10.0-142 | - | - | 18.0 | 28 |
| Tokuthion (Prothothiofos) | 0.333 | U | 0.337 | 0.439 | 101 | 132 | 1 | 12.0-153 | | 3 | 26.3 | 20 |
| Trichloronate | 0.333 | U | 0.354 | 0.461 | 106 | 138 | 1 | 12.0-152 | | 3 | 26.3 | 20 |
| *(S) Triphenyl Phosphate* | | | | | *111* | *136* | | *36.0-121* | | 1 | | |

## L1775077-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775077-01 09/12/24 16:57 MS 4119330-7 09/12/24 17:30 MS 4119330-8 09/12/24 18:04

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | 0.333 | U | 0.334 | 0.489 | 100 | 147 | 1 | 10.0-160 | | 3 | 37.7 | 22 |
| Bolstar (Sulprofos) | 0.333 | U | 0.338 | 0.489 | 102 | 147 | 1 | 10.0-151 | | 3 | 36.5 | 20 |
| Chlorpyrifos | 0.333 | U | 0.357 | 0.517 | 107 | 155 | 1 | 12.0-149 | | 3 5 | 36.6 | 20 |
| Coumaphos | 0.333 | U | 0.354 | 0.511 | 106 | 153 | 1 | 10.0-160 | | 3 | 36.3 | 22 |
| Demeton,-O and -S | 0.167 | U | 0.181 | 0.291 | 108 | 174 | 1 | 10.0-160 | | 3 5 | 46.6 | 23 |
| Diazinon | 0.333 | U | 0.349 | 0.512 | 105 | 154 | 1 | 11.0-157 | | 3 | 37.9 | 20 |
| Dichlorvos | 0.333 | U | 0.356 | 0.513 | 107 | 154 | 1 | 10.0-160 | | 3 | 36.1 | 24 |
| Dimethoate | 0.333 | U | 0.357 | 0.507 | 107 | 152 | 1 | 10.0-150 | | 3 5 | 34.7 | 27 |
| Disulfoton | 0.333 | U | 0.325 | 0.498 | 97.6 | 150 | 1 | 12.0-155 | | 3 | 42.0 | 20 |
| EPN | 0.333 | U | 0.376 | 0.539 | 113 | 162 | 1 | 10.0-159 | | 3 5 | 35.6 | 20 |
| Ethoprop | 0.333 | U | 0.354 | 0.520 | 106 | 156 | 1 | 11.0-156 | | 3 | 38.0 | 20 |
| Ethyl Parathion | 0.333 | U | 0.395 | 0.567 | 119 | 170 | 1 | 10.0-147 | | 3 5 | 35.8 | 20 |
| Fensulfothion | 0.333 | U | 0.362 | 0.525 | 109 | 158 | 1 | 10.0-157 | | 3 5 | 36.8 | 27 |
| Fenthion | 0.333 | U | 0.357 | 0.518 | 107 | 156 | 1 | 13.0-155 | | 3 5 | 36.8 | 20 |
| Malathion | 0.333 | U | 0.379 | 0.547 | 114 | 164 | 1 | 13.0-137 | | 3 5 | 36.3 | 21 |
| Merphos | 0.333 | U | 0.278 | 0.401 | 83.5 | 120 | 1 | 10.0-147 | | 3 | 36.2 | 26 |
| Methyl parathion | 0.333 | U | 0.347 | 0.511 | 104 | 153 | 1 | 10.0-150 | | 3 5 | 38.2 | 21 |
| Mevinphos | 0.333 | U | 0.302 | 0.456 | 90.7 | 137 | 1 | 10.0-158 | | 3 | 40.6 | 24 |
| Naled | 0.333 | U | 0.0995 | 0.144 | 29.9 | 43.2 | 1 | 10.0-137 | - | | 36.6 | 40 |
| Phorate | 0.333 | U | 0.316 | 0.456 | 94.9 | 137 | 1 | 13.0-154 | | 3 | 36.3 | 20 |
| Ronnel | 0.333 | U | 0.335 | 0.478 | 101 | 144 | 1 | 14.0-149 | | 3 | 35.2 | 20 |
| Stirophos | 0.333 | U | 0.346 | 0.496 | 104 | 149 | 1 | 10.0-150 | | 3 | 35.6 | 20 |
| Sulfotep | 0.333 | U | 0.415 | 0.595 | 125 | 179 | 1 | 10.0-160 | | 3 5 | 35.6 | 20 |
| TEPP | 3.33 | U | 1.53 | 3.63 | 45.9 | 109 | 1 | 10.0-142 | | 3 | 81.4 | 28 |

## L1775077-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775077-01 09/12/24 16:57 MS 4119330-7 09/12/24 17:30 MS 4119330-8 09/12/24 18:04

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tokuthion (Prothiofos) | 0.333 | U | 0.333 | 0.492 | 100 | 148 | 1 | 12.0-153 | | 3 | 38.5 | 20 |
| Trichloronate | 0.333 | U | 0.367 | 0.527 | 110 | 158 | 1 | 12.0-152 | | 3 5 | 35.8 | 20 |
| *(S) Triphenyl Phosphate* | | | | | *112* | *156* | | *36.0-121* | | 1 | | |

## Method an M

M 4119489-1 09/12/24 23:09

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Aldrin | U | | 0.00376 | 0.0200 |
| Alpha BHC | U | | 0.00368 | 0.0200 |
| Beta BHC | U | | 0.00379 | 0.0200 |
| Delta BHC | U | | 0.00346 | 0.0200 |
| Gamma BHC | U | | 0.00344 | 0.0200 |
| 4,4-DDD | U | | 0.00370 | 0.0200 |
| 4,4-DDE | U | | 0.00366 | 0.0200 |
| 4,4-DDT | U | | 0.00627 | 0.0200 |
| Dieldrin | U | | 0.00344 | 0.0200 |
| Endosulfan I | U | | 0.00363 | 0.0200 |
| Endosulfan II | U | | 0.00335 | 0.0200 |
| Endosulfan sulfate | U | | 0.00364 | 0.0200 |
| Endrin | U | | 0.00350 | 0.0200 |
| Endrin aldehyde | U | | 0.00339 | 0.0200 |
| Endrin ketone | U | | 0.00711 | 0.0200 |
| Heptachlor | U | | 0.00428 | 0.0200 |
| Heptachlor epoxide | U | | 0.00339 | 0.0200 |
| Hexachlorobenzene | U | | 0.00346 | 0.0200 |
| Methoxychlor | U | | 0.00484 | 0.0200 |
| Chlordane | U | | 0.103 | 0.300 |
| Toxaphene | U | | 0.124 | 0.400 |
| *(S) Decachlorobiphenyl* | *92.3* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *97.3* | | | *10.0-139* |

## Laborator Contro Samp e LCS

LCS 4119489-2 09/12/24 23:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Aldrin | 0.0666 | 0.0715 | 107 | 34.0-136 | |
| Alpha BHC | 0.0666 | 0.0712 | 107 | 34.0-139 | |
| Beta BHC | 0.0666 | 0.0742 | 111 | 34.0-133 | |
| Delta BHC | 0.0666 | 0.0690 | 104 | 34.0-135 | |
| Gamma BHC | 0.0666 | 0.0711 | 107 | 34.0-136 | |
| 4,4-DDD | 0.0666 | 0.0696 | 105 | 33.0-141 | |
| 4,4-DDE | 0.0666 | 0.0693 | 104 | 34.0-134 | |
| 4,4-DDT | 0.0666 | 0.0710 | 107 | 30.0-143 | |
| Dieldrin | 0.0666 | 0.0707 | 106 | 35.0-137 | |
| Endosulfan I | 0.0666 | 0.0722 | 108 | 34.0-134 | |

## Laborator Contro Samp e LCS

LCS 4119489-2 09/12/24 23:18

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Endosulfan II | 0.0666 | 0.0723 | 109 | 35.0-132 | |
| Endosulfan sulfate | 0.0666 | 0.0721 | 108 | 35.0-132 | |
| Endrin | 0.0666 | 0.0704 | 106 | 34.0-137 | |
| Endrin aldehyde | 0.0666 | 0.0629 | 94.4 | 23.0-121 | |
| Endrin ketone | 0.0666 | 0.0746 | 112 | 35.0-144 | |
| Heptachlor | 0.0666 | 0.0706 | 106 | 36.0-141 | |
| Heptachlor epoxide | 0.0666 | 0.0707 | 106 | 36.0-134 | |
| Hexachlorobenzene | 0.0666 | 0.0710 | 107 | 33.0-129 | |
| Methoxychlor | 0.0666 | 0.0668 | 100 | 28.0-150 | |
| *(S) Decachlorobiphenyl* | | | *101* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *101* | *10.0-139* | |

## L1775071-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775071-01 09/12/24 23:37 MS 4119489-3 09/12/24 23:46 MS 4119489-4 09/12/24 23:56

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.0656 | U | 0.0679 | 0.0663 | 104 | 102 | 1 | 20.0-135 | | | 2.38 | 37 |
| Alpha BHC | 0.0656 | U | 0.0646 | 0.0629 | 98.5 | 96.9 | 1 | 27.0-140 | | | 2.67 | 35 |
| Beta BHC | 0.0656 | U | 0.0675 | 0.0661 | 103 | 102 | 1 | 23.0-141 | | | 2.10 | 37 |
| Delta BHC | 0.0656 | U | 0.0628 | 0.0613 | 95.7 | 94.5 | 1 | 21.0-138 | | | 2.42 | 35 |
| Gamma BHC | 0.0656 | U | 0.0651 | 0.0635 | 99.2 | 97.8 | 1 | 27.0-137 | | | 2.49 | 36 |
| 4,4-DDD | 0.0656 | U | 0.0681 | 0.0674 | 104 | 104 | 1 | 15.0-152 | | | 1.03 | 39 |
| 4,4-DDE | 0.0656 | U | 0.0718 | 0.0696 | 109 | 107 | 1 | 10.0-152 | | | 3.11 | 40 |
| 4,4-DDT | 0.0656 | U | 0.0699 | 0.0692 | 107 | 107 | 1 | 10.0-151 | | | 1.01 | 40 |
| Dieldrin | 0.0656 | U | 0.0672 | 0.0671 | 102 | 103 | 1 | 17.0-145 | | | 0.149 | 37 |
| Endosulfan I | 0.0656 | U | 0.0683 | 0.0660 | 104 | 102 | 1 | 20.0-137 | | | 3.43 | 36 |
| Endosulfan II | 0.0656 | U | 0.0683 | 0.0679 | 104 | 105 | 1 | 15.0-141 | | | 0.587 | 37 |
| Endosulfan sulfate | 0.0656 | U | 0.0663 | 0.0653 | 101 | 101 | 1 | 15.0-143 | | | 1.52 | 38 |
| Endrin | 0.0656 | U | 0.0677 | 0.0662 | 103 | 102 | 1 | 19.0-143 | | | 2.24 | 37 |
| Endrin aldehyde | 0.0656 | U | 0.0602 | 0.0590 | 91.8 | 90.9 | 1 | 10.0-139 | | | 2.01 | 40 |
| Endrin ketone | 0.0656 | U | 0.0680 | 0.0663 | 104 | 102 | 1 | 17.0-149 | | | 2.53 | 38 |
| Heptachlor | 0.0656 | U | 0.0662 | 0.0665 | 101 | 102 | 1 | 22.0-138 | | | 0.452 | 37 |
| Heptachlor epoxide | 0.0656 | U | 0.0704 | 0.0676 | 107 | 104 | 1 | 22.0-138 | | | 4.06 | 36 |
| Hexachlorobenzene | 0.0656 | U | 0.0648 | 0.0632 | 98.8 | 97.4 | 1 | 25.0-126 | | | 2.50 | 35 |
| Methoxychlor | 0.0656 | U | 0.0623 | 0.0618 | 95.0 | 95.2 | 1 | 10.0-159 | | | 0.806 | 40 |
| *(S) Decachlorobiphenyl* | | | | | *109* | *106* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *91.9* | *89.8* | | *10.0-139* | | | | |

## Method an M

M 4120392-2 09/14/24 14:53

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |

## Method an M

M 4120392-2 09/14/24 14:53

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *68.0* | | | *12.0-120* |
| *(S) Phenol-d5* | *66.8* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *80.5* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *76.9* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *63.5* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *82.6* | | | *10.0-120* |

## Laborator Contro Samp e LCS

LCS 4120392-1 09/14/24 14:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.458 | 68.8 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.489 | 73.4 | 40.0-120 | |
| Anthracene | 0.666 | 0.550 | 82.6 | 42.0-120 | |
| Benzidine | 1.33 | 0.486 | 36.5 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.602 | 90.4 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.549 | 82.4 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.552 | 82.9 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.588 | 88.3 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.586 | 88.0 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.414 | 62.2 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.408 | 61.3 | 16.0-120 | |
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.396 | 59.5 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.605 | 90.8 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.463 | 69.5 | 35.0-120 | |

## Laborator Contro Samp e LCS

LCS 4120392-1 09/14/24 14:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 4-Chlorophenyl-phenylether | 0.666 | 0.574 | 86.2 | 40.0-120 | |
| Chrysene | 0.666 | 0.562 | 84.4 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.579 | 86.9 | 44.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 1.15 | 86.5 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.609 | 91.4 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.582 | 87.4 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.611 | 91.7 | 44.0-120 | |
| Fluorene | 0.666 | 0.512 | 76.9 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.559 | 83.9 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.513 | 77.0 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.389 | 58.4 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.407 | 61.1 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.573 | 86.0 | 45.0-120 | |
| Isophorone | 0.666 | 0.459 | 68.9 | 23.0-120 | |
| Naphthalene | 0.666 | 0.380 | 57.1 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.439 | 65.9 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.391 | 58.7 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.526 | 79.0 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.479 | 71.9 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.549 | 82.4 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.575 | 86.3 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.567 | 85.1 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.548 | 82.3 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.559 | 83.9 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.568 | 85.3 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.549 | 82.4 | 40.0-120 | |
| Pyrene | 0.666 | 0.548 | 82.3 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.440 | 66.1 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.481 | 72.2 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.445 | 66.8 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.493 | 74.0 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.539 | 80.9 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.673 | 101 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.502 | 75.4 | 10.0-120 | |
| 2-Nitrophenol | 0.666 | 0.472 | 70.9 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.541 | 81.2 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.473 | 71.0 | 29.0-120 | |
| Phenol | 0.666 | 0.459 | 68.9 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.569 | 85.4 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *70.3* | *12.0-120* | |

## Laborator Contro Samp e LCS

LCS 4120392-1 09/14/24 14:32

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| *(S) Phenol-d5* | | | *68.6* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *63.1* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *72.7* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *96.5* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *85.0* | *10.0-120* | |

## L1774463-02 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1774463-02 09/14/24 15:55 MS 4120392-3 09/14/24 16:16 MS 4120392-4 09/14/24 16:37

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.774 | U | 0.451 | 0.467 | 58.3 | 60.4 | 1 | 18.0-120 | | | 3.54 | 32 |
| Acenaphthylene | 0.774 | U | 0.508 | 0.498 | 65.6 | 64.4 | 1 | 25.0-120 | | | 1.85 | 32 |
| Anthracene | 0.774 | U | 0.571 | 0.574 | 73.7 | 74.2 | 1 | 22.0-120 | | | 0.609 | 29 |
| Benzidine | 1.55 | U | U | U | 0.000 | 0.000 | 1 | 10.0-120 | 6 | 6 | 0.000 | 40 |
| Benzo(a)anthracene | 0.774 | U | 0.632 | 0.604 | 81.7 | 78.1 | 1 | 25.0-120 | | | 4.51 | 29 |
| Benzo(b)fluoranthene | 0.774 | U | 0.581 | 0.567 | 75.1 | 73.3 | 1 | 19.0-122 | | | 2.43 | 31 |
| Benzo(k)fluoranthene | 0.774 | U | 0.584 | 0.575 | 75.5 | 74.3 | 1 | 23.0-120 | | | 1.60 | 30 |
| Benzo(g,h,i)perylene | 0.774 | U | 0.593 | 0.604 | 76.6 | 78.1 | 1 | 10.0-120 | | | 1.94 | 33 |
| Benzo(a)pyrene | 0.774 | U | 0.609 | 0.596 | 78.7 | 77.0 | 1 | 24.0-120 | | | 2.12 | 30 |
| Bis(2-chlorethoxy)methane | 0.774 | U | 0.435 | 0.419 | 56.2 | 54.2 | 1 | 10.0-120 | | | 3.54 | 34 |
| Bis(2-chloroethyl)ether | 0.774 | U | 0.568 | 0.531 | 73.4 | 68.6 | 1 | 10.0-120 | | | 6.77 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.774 | U | 0.396 | 0.410 | 51.2 | 53.0 | 1 | 10.0-120 | | | 3.46 | 40 |
| 4-Bromophenyl-phenylether | 0.774 | U | 0.610 | 0.632 | 78.8 | 81.7 | 1 | 27.0-120 | | | 3.55 | 30 |
| 2-Chloronaphthalene | 0.774 | U | 0.480 | 0.460 | 62.0 | 59.5 | 1 | 20.0-120 | | | 4.20 | 32 |
| 4-Chlorophenyl-phenylether | 0.774 | U | 0.575 | 0.604 | 74.3 | 78.1 | 1 | 24.0-120 | | | 4.93 | 29 |
| Chrysene | 0.774 | U | 0.602 | 0.580 | 77.8 | 74.9 | 1 | 21.0-120 | | | 3.74 | 29 |
| Dibenz(a,h)anthracene | 0.774 | U | 0.600 | 0.587 | 77.5 | 75.8 | 1 | 10.0-120 | | | 2.15 | 32 |
| 3,3-Dichlorobenzidine | 1.55 | U | 0.957 | 0.944 | 62.0 | 61.1 | 1 | 10.0-120 | | | 1.47 | 34 |
| 2,4-Dinitrotoluene | 0.774 | U | 0.609 | 0.610 | 78.7 | 78.8 | 1 | 30.0-120 | | | 0.191 | 31 |
| 2,6-Dinitrotoluene | 0.774 | U | 0.532 | 0.564 | 68.8 | 72.8 | 1 | 25.0-120 | | | 5.73 | 31 |
| Fluoranthene | 0.774 | U | 0.655 | 0.634 | 84.7 | 82.0 | 1 | 18.0-126 | | | 3.24 | 32 |
| Fluorene | 0.774 | U | 0.523 | 0.529 | 67.6 | 68.3 | 1 | 25.0-120 | | | 1.10 | 30 |
| Hexachlorobenzene | 0.774 | U | 0.541 | 0.562 | 70.0 | 72.7 | 1 | 27.0-120 | | | 3.79 | 28 |
| Hexachloro-1,3-butadiene | 0.774 | U | 0.565 | 0.579 | 73.0 | 74.8 | 1 | 10.0-120 | | | 2.44 | 38 |
| Hexachlorocyclopentadiene | 0.774 | U | 0.257 | 0.247 | 33.2 | 32.0 | 1 | 10.0-120 | - | - | 3.69 | 40 |
| Hexachloroethane | 0.774 | U | 0.380 | 0.411 | 49.1 | 53.2 | 1 | 10.0-120 | - | | 7.93 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.774 | U | 0.582 | 0.596 | 75.2 | 77.0 | 1 | 10.0-120 | | | 2.37 | 32 |
| Isophorone | 0.774 | U | 0.464 | 0.454 | 59.9 | 58.7 | 1 | 13.0-120 | | | 2.03 | 34 |

## L1774463-02 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1774463-02 09/14/24 15:55 MS 4120392-3 09/14/24 16:16 MS 4120392-4 09/14/24 16:37

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.774 | U | 0.406 | 0.409 | 52.4 | 52.9 | 1 | 10.0-120 | | | 0.856 | 35 |
| Nitrobenzene | 0.774 | U | 0.464 | 0.451 | 59.9 | 58.3 | 1 | 10.0-120 | | | 2.80 | 36 |
| n-Nitrosodimethylamine | 0.774 | U | 0.331 | 0.422 | 42.8 | 54.5 | 1 | 10.0-127 | - | | 24.1 | 40 |
| n-Nitrosodiphenylamine | 0.774 | U | 0.496 | 0.518 | 64.1 | 67.0 | 1 | 17.0-120 | | | 4.35 | 29 |
| n-Nitrosodi-n-propylamine | 0.774 | U | 0.495 | 0.475 | 64.0 | 61.4 | 1 | 10.0-120 | | | 4.07 | 37 |
| Phenanthrene | 0.774 | U | 0.553 | 0.561 | 71.5 | 72.5 | 1 | 17.0-120 | | | 1.46 | 31 |
| Benzylbutyl phthalate | 0.774 | U | 0.619 | 0.581 | 80.0 | 75.1 | 1 | 23.0-120 | | | 6.39 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.774 | U | 0.602 | 0.576 | 77.8 | 74.5 | 1 | 17.0-126 | | | 4.34 | 30 |
| Di-n-butyl phthalate | 0.774 | U | 0.573 | 0.551 | 74.0 | 71.2 | 1 | 30.0-120 | | | 3.93 | 29 |
| Diethyl phthalate | 0.774 | U | 0.567 | 0.582 | 73.3 | 75.2 | 1 | 26.0-120 | | | 2.63 | 28 |
| Dimethyl phthalate | 0.774 | U | 0.469 | 0.528 | 60.7 | 68.2 | 1 | 25.0-120 | | | 11.7 | 29 |
| Di-n-octyl phthalate | 0.774 | U | 0.586 | 0.572 | 75.7 | 73.9 | 1 | 21.0-123 | | | 2.41 | 29 |
| Pyrene | 0.774 | U | 0.576 | 0.560 | 74.5 | 72.4 | 1 | 16.0-121 | | | 2.86 | 32 |
| 1,2,4-Trichlorobenzene | 0.774 | U | 0.466 | 0.474 | 60.2 | 61.3 | 1 | 12.0-120 | | | 1.73 | 37 |
| 4-Chloro-3-methylphenol | 0.774 | U | 0.327 | 0.451 | 42.2 | 58.3 | 1 | 15.0-120 | - | 3 | 32.0 | 30 |
| 2-Chlorophenol | 0.774 | U | 0.464 | 0.449 | 59.9 | 58.0 | 1 | 15.0-120 | | | 3.31 | 37 |
| 2,4-Dichlorophenol | 0.774 | U | 0.515 | 0.505 | 66.5 | 65.3 | 1 | 20.0-120 | | | 1.82 | 31 |
| 2,4-Dimethylphenol | 0.774 | U | 0.476 | 0.519 | 61.6 | 67.1 | 1 | 10.0-120 | | | 8.63 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.774 | U | 0.777 | 0.748 | 100 | 96.7 | 1 | 10.0-120 | | | 3.81 | 39 |
| 2,4-Dinitrophenol | 0.774 | U | 0.776 | 0.724 | 100 | 93.5 | 1 | 10.0-121 | | | 6.97 | 40 |
| 2-Nitrophenol | 0.774 | U | 0.503 | 0.496 | 65.0 | 64.1 | 1 | 12.0-120 | | | 1.40 | 39 |
| 4-Nitrophenol | 0.774 | U | 0.667 | 0.614 | 86.2 | 79.3 | 1 | 10.0-137 | | | 8.35 | 32 |
| Pentachlorophenol | 0.774 | U | 0.562 | 0.577 | 72.7 | 74.6 | 1 | 10.0-160 | | | 2.65 | 31 |
| Phenol | 0.774 | U | 0.215 | 0.273 | 27.8 | 35.3 | 1 | 12.0-120 | - | - | 23.8 | 38 |
| 2,4,6-Trichlorophenol | 0.774 | U | 0.568 | 0.540 | 73.4 | 69.8 | 1 | 19.0-120 | | | 5.03 | 32 |
| *(S) 2-Fluorophenol* | | | | | *63.4* | *62.5* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *25.1* | *31.7* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *60.4* | *59.5* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *65.5* | *61.9* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *84.2* | *87.7* | | *10.0-127* | | | | |
| *(S) p-Terphenyl-d14* | | | | | *78.1* | *74.5* | | *10.0-120* | | | | |

## u de to ead ng and Understand ng our Laborator eport

The nformat on be o s des gned to better e p a n the ar ous terms used n our report of ana t ca resu ts from the Laborator Th s s not ntended as a comprehens e e p anat on, and f ou ha e add t ona uest ons p ease contact our project representat e

esu ts sc a mer - Informat on that ma be pro ded b the customer, and conta ned th n th s report, nc ude Perm t L m ts, Project ame, Samp e I , Samp e Matr , Samp e Preser at on, e d an s, e d Sp es, e d up cates, n-S te ata, Samp ng Co ect on ates/T mes, and Samp ng Locat on esu ts re ate to the accurac of th s nformat on pro ded, and as the samp es are rece ed

## Abbre at ons and ef n t ons

| | |
|---|---|
| dr | esu ts are reported based on the dr e ght of the samp e th s on be present on a dr report bas s for so s |
| M L | Method etect on L m t |
| M L dr | Method etect on L m t |
| L | eported etect on L m t |
| L dr | eported etect on L m t |
| ec | eco er |
| P | e at e Percent fference |
| S | Samp e e er roup |
| S | Surrogate Surrogate Standard - Ana tes added to e er b an , samp e, Laborator Contro Samp e/ up cate and Matr Sp e/ up cate used to e a uate ana t ca eff c enc b measur ng reco er Surrogates are not e pected to be detected n a en ronmenta med a |
| U | ot detected at the eport ng L m t or M L here app cab e |
| Ana te | The name of the part cu ar compound or ana s s performed Some Ana ses and Methods ha e mu t p e ana tes reported |
| ut on | If the samp e matr conta ns an nterfer ng mater a , the samp e preparat on o ume or e ght a ues d ffer from the standard, or f concentrat ons of ana tes n the samp e are h gher than the h ghest m t of concentrat on that the aborator can accurate report, the samp e ma be d uted for ana s s If a a ue d fferent than 1 s used n th s f e d, the resu t reported has a read been corrected for th s factor |
| L m ts | These are the target reco er ranges or d fference a ue that the aborator has h stor ca determ ned as norma for the method and ana te be ng reported Successfu C Samp e ana s s target a ana tes reco ered or dup cated th n these ranges |
| r g na Samp e | The non-sp ed samp e n the prep batch used to determ ne the e at e Percent fference P from a ua t contro samp e The r g na Samp e ma not be nc uded th n the reported S |
| ua f er | Th s co umn pro des a etter and/or number des gnat on that corresponds to add t ona nformat on concern ng the resu t reported If a ua f er s present, a def n t on per ua f er s pro ded th n the ossar and ef n t ons page and potent a a d scuss on of poss b e mp cat ons of the ua f er n the Case arrat e f app cab e |
| esu t | The actua ana t ca f na resu t corrected for an samp e spec f c character st cs reported for our samp e If there as no measurab e resu t returned for a spec f c ana te, the resu t n th s co umn ma state ot etected or L e o etectab e Le e s The nformat on n the resu ts co umn shou d a a s be accompan ed b e ther an M L Method etect on L m t or L eport ng etect on L m t that def nes the o est a ue that the aborator cou d detect or report for th s ana te |
| Uncerta nt ad ochem str | Conf dence e e of 2 s gma |
| Case arrat e Cn | A br ef d scuss on about the nc uded samp e resu ts, nc ud ng a d scuss on of an non-conformances to protoco obser ed e ther at samp e rece pt b the aborator from the f e d or dur ng the ana t ca process If present, there be a sect on n the Case arrat e to d scuss the mean ng of an data ua f ers used n the report |
| ua t Contro Summar c | Th s sect on of the report nc udes the resu ts of the aborator ua t contro ana ses re u red b procedure or ana t ca methods to ass st n e a uat ng the a d t of the resu ts reported for our samp es These ana ses are not be ng performed on our samp es t p ca , but on aborator generated mater a |
| Samp e Cha n of Custod Sc | Th s s the document created n the f e d hen our samp es ere n t a co ected Th s s used to er f the t me and date of co ect on, the person co ect ng the samp es, and the ana ses that the aborator s re uested to perform Th s cha n of custod a so documents a persons e c ud ng commerc a sh ppers that ha e had contro or possess on of the samp es from the t me of co ect on unt de er to the aborator for ana s s |
| Samp e esu ts Sr | Th s sect on of our report pro de the resu ts of a test ng performed on our samp es These resu ts are pro ded b samp e I and are separated b the ana ses performed on each samp e The header ne of each ana s s sect on for each samp e pro de the name and method number for the ana s s reported |
| Samp e Summar Ss | Th s sect on of the Ana t ca eport def nes the spec f c ana ses performed for each samp e I , nc ud ng the dates and t mes of preparat on and/or ana s s |

## ua f er escr pt on

| | |
|---|---|
| | The same ana te s found n the assoc ated b an |
| | The dent f cat on of the ana te s acceptab e the reported a ue s an est mate |
| 1 | Surrogate reco er m ts ha e been e ceeded a ues are outs de upper contro m ts |
| 3 | The assoc ated batch C as outs de the estab shed ua t contro range for prec s on |
| 4 | The assoc ated batch C as outs de the estab shed ua t contro range for accurac |
| 5 | The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s h gh |
| 6 | The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s o |

# ACC E ITATI S L CATI S

## Pace Ana t ca at ona 12065 Lebanon d Mount u et, T 37122

| | | | |
|---|---|---|---|
| Ala ama | | Ne raska | N OS |
| Alaska | | Nevada | N |
| Ari ona | A | Ne ampshire | |
| Arkansas | | Ne ersey N LAP | N |
| California | | Ne Me ico | N |
| Colorado | N | Ne ork | |
| Connecticut | P | North Carolina | nv |
| lorida | | North Carolina | D |
| eorgia | N LAP | North Carolina | |
| eorgia | | North Dakota | R |
| daho | N | Ohio AP | CL |
| llinois | | Oklahoma | |
| ndiana | C N | Oregon | N |
| o a | | Pennsylvania | |
| ansas | | Rhode sland | LAO |
| entucky | | South Carolina | |
| entucky | | South Dakota | n a |
| Louisiana | A | ennessee | |
| Louisiana | LA | e as | |
| Maine | N | e as | LAB |
| Maryland | | Utah | N |
| Massachusetts | M N | ermont | |
| Michigan | | irginia | |
| Minnesota | | ashington | C |
| Mississippi | N | est irginia | |
| Missouri | | isconsin | |
| Montana | C R | yoming | A LA |
| A LA SO | . | A A LAP LLC MLAP | |
| A LA SO | . | DOD | . |
| Canada | . | USDA | P |
| PA Crypto | N | | |

Drinking ater Underground Storage anks A uatic o icity Chemical Micro iological Mold aste ater n a Accreditation not applica le

Not all certifications held y the la oratory are applica le to the results reported in the attached report.

Accreditation is only applica le to the test methods specified on each scope of accreditation held y Pace Analytical.

Company Name/Address:
**Tetra Tech EMI - Houston, TX**

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to: Diana Eldam/Manuela Pastrano

Email To: manuela.pastrano@tetratech.com;diana.eldam

Project Description: DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project # TETRAHTX-KELLER

Collected by (print): Mark Wodarczyk

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

DROCA, SW8270 8ozCl-NoPres
GROCA 40mlAmb/MeOH 10ml/Syr
MRCRA8 8ozCl-NoPres
SW8011,SW8141,SW8151 8ozCl-NoPres
V8260 40mlAmb/MeOH 10ml/Syr

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1729781
D233

Acctnum: TETRAHTX
Template: T259254
Prelogin: P1097698
PM: 3564 - Chad A Upchurch
PB:

Shipped Via: FedEx Priority

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|
| Area1-1-0.5 | Grab | SS | 0-0.5 | 9/9/24 | 0745 | 3 | Hold Sample -03 | |
| Area1-1-2 | Grab | SS | 1-2' | 9/9/24 | 0750 | | Hold Sample -01 | |
| Area1-2-0.5 | | SS | 0-0.5 | 9/9/24 | 0810 | | Hold Sample -07 | |
| Area1-2-2 | | SS | 1-2 | 9/9/24 | 0815 | | Hold Sample -04 | |
| Area1-3-0.5 | | SS | 0-0.5 | 9/9/24 | 0820 | | Hold Sample -05 | |
| Area1-3-2 | | SS | 1-2 | 9/9/24 | 0825 | | Hold Sample -06 | |
| Area1-4-0.5 | | SS | 0-0.5 | 9/9/24 | 0835 | | Hold Sample -02 | |
| Area1-4-2 | | SS | 1-2 | 9/9/24 | 0840 | | Hold Sample -08 | |
| Area1-5-0.5 | | SS | 0-0.5 | 9/9/24 | 0855 | | Hold Sample -09 | |
| Area1-5-2 | | SS | 1-2 | 9/9/24 | 0900 | | Hold Sample -10 | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

**Remarks:** All discrete soil samples will be placed on hold for the same analyses at the laboratory pending the results of the composite soil samples.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeOH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| [signature] | 9/9/24 | 1500 | | 1 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: 33 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) Devan G | Date: 9.10.24 Time: 0815 | Hold: Condition: NCF / OK |

CONFIDENTIAL
No reliance without separate reliance agreement.

Company Name/Address:
**Tetra Tech EMI - Houston, TX**

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Mark Wiodarczyk

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCA, SV8270 8ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | MRCRA8 8ozClr-NoPres | SV8081,SV8141,SV8151 8ozClr-NoPres | V8260 40mlAmb/MeOH 10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area1 - Comp | Comp | SS | 0-0.5 | 9/9/24 | 0910 | 3 | X | X | X | X | X | | -11 |
| | | SS | | | | | | | | | | | |
| | | SS | | | | | | | | | | | |
| | | SS | | | | | | | | | | | |
| | | SS | | | | | | | | | | | |
| | | SS | | | | | | | | | | | |
| | | SS | | | | | | | | | | | |
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| | | SS | | | | | | | | | | | |
| | | SS | | | | | | | | | | | |
| | | SS | | | | | | | | | | | |

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1249169

Table #

Acctnum: TETRAHTX
Template: T259254
Prelogin: P1097698
PM: 3564 - Chad A Upchurch
PB:

Shipped Via: FedEx Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 9/9/24 | 1500 | | 1 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: 33 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) Deyanira | Date: 9.10.24 | Time: 0841 |

Hold: Condition: NCF / OK

CONFIDENTIAL
No reliance without separate reliance agreement.

CONFIDENTIAL

| Fed Ex tracking # | Gun ID | Temperature |
|---|---|---|
| 4072 9169 8085 | TLA9 | 97.3 to 97.6 |
| 4102 9169 8096 | TLA9 | 97.4 to 97.7 |
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| | | |
| | | |
| | | |

Dennis
Name

9.10.24
Date

No reliance without separate reliance agreement.

# ANALYTICAL REPORT

September 17, 2024

## Tetra Tech EMI - Houston, TX

Samp e e er roup: L1775992

Samp es ece ed: 09/10/2024

Project umber:

escr pt on: Horton - C e er Cross ng Phase II

eport To: ana E dam/Manue a Pastrano
1500 C t est ou e ard
Su te 1000
Houston, TX 77042

Ent re eport e e ed :

Chad A Upchurch
Project Manager

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## A EA2-C MP L1775992-11 So d

Collected by: MAxx Wlodarczyk
Collected date/time: 09/09/24 10:55
Received date/time: 09/10/24 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2360050 | 1 | 09/11/24 08:13 | 09/11/24 08:21 | CMB | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2360119 | 1 | 09/11/24 09:39 | 09/12/24 11:57 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2360201 | 1 | 09/16/24 17:33 | 09/17/24 09:15 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2361477 | 30.3 | 09/09/24 10:55 | 09/12/24 18:59 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2361217 | 1.21 | 09/09/24 10:55 | 09/12/24 16:02 | JAH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2361926 | 1 | 09/12/24 16:49 | 09/13/24 10:32 | KKS | Mt. Juliet, TN |
| Chlorinated Acid Herbicides (GC) by Method 8151 | WG2360814 | 1 | 09/13/24 04:03 | 09/13/24 20:49 | LJD | Mt. Juliet, TN |
| Chlorinated Acid Herbicides (GC) by Method 8151 | WG2360814 | 1 | 09/13/24 04:03 | 09/16/24 18:09 | NWH | Mt. Juliet, TN |
| OP Pesticides by Method 8141 | WG2359686 | 1 | 09/11/24 23:38 | 09/13/24 16:53 | MEW | Mt. Juliet, TN |
| Pesticides (GC) by Method 8081 | WG2361741 | 1 | 09/13/24 07:28 | 09/13/24 15:40 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2361742 | 2 | 09/13/24 13:08 | 09/14/24 00:38 | DSH | Mt. Juliet, TN |

A samp e a uots ere rece ed at the correct temperature, n the proper conta ners, th the appropr ate preser at es, and th n method spec f ed ho d ng t mes, un ess ua f ed or notated th n the report here app cab e, a M L L and L L a ues reported for en ronmenta samp es ha e been corrected for the d ut on factor used n the ana s s A Method and atch ua t Contro are th n estab shed cr ter a e cept here addressed n th s case narrat e, a non-conformance form or proper ua f ed th n the samp e resu ts m d g ta s gnature be o , l aff rm to the best of m no edge, a prob ems/anoma es obser ed b the aborator as ha ng the potent a to affect the ua t of the data ha e been dent f ed b the aborator , and no nformat on or data ha e been no ng thhe d that ou d affect the ua t of the data

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## Tota So ds b Method 2540 -2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 98.2 | | 1 | 09/11/2024 08:21 | WG2360050 |

## Mercur b Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | U | | 0.0183 | 0.0407 | 1 | 09/12/2024 11:57 | WG2360119 |

## Meta s ICP b Method 6010

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 13.1 | | 0.527 | 2.04 | 1 | 09/17/2024 09:15 | WG2360201 |
| Barium | 220 | | 0.0868 | 0.509 | 1 | 09/17/2024 09:15 | WG2360201 |
| Cadmium | U | | 0.0480 | 0.509 | 1 | 09/17/2024 09:15 | WG2360201 |
| Chromium | 42.8 | | 0.135 | 1.02 | 1 | 09/17/2024 09:15 | WG2360201 |
| Lead | 16.0 | | 0.212 | 0.509 | 1 | 09/17/2024 09:15 | WG2360201 |
| Selenium | 1.89 | _ | 0.778 | 2.04 | 1 | 09/17/2024 09:15 | WG2360201 |
| Silver | 0.409 | _ | 0.129 | 1.02 | 1 | 09/17/2024 09:15 | WG2360201 |

## o at e rgan c Compounds C b Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 2.17 | __ | 1.04 | 3.13 | 30.3 | 09/12/2024 18:59 | WG2361477 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* | | *09/12/2024 18:59* | WG2361477 |

## o at e rgan c Compounds C/MS b Method 8260

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0457 | 0.0625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Acrylonitrile | U | | 0.00452 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Benzene | U | | 0.000584 | 0.00125 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Bromobenzene | U | | 0.00113 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Bromodichloromethane | U | | 0.000906 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Bromoform | U | | 0.00147 | 0.0313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Bromomethane | U | | 0.00246 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| n-Butylbenzene | U | | 0.00656 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| sec-Butylbenzene | U | | 0.00360 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| tert-Butylbenzene | U | | 0.00244 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Carbon tetrachloride | U | | 0.00113 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Chlorobenzene | U | | 0.000262 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Chlorodibromomethane | U | | 0.000766 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Chloroethane | U | | 0.00213 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Chloroform | U | | 0.00129 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Chloromethane | U | 4 | 0.00544 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 2-Chlorotoluene | U | | 0.00109 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 4-Chlorotoluene | U | | 0.000562 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00488 | 0.0313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,2-Dibromoethane | U | | 0.000810 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Dibromomethane | U | | 0.000938 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,2-Dichlorobenzene | U | | 0.000531 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,3-Dichlorobenzene | U | | 0.000750 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,4-Dichlorobenzene | U | | 0.000875 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Dichlorodifluoromethane | U | | 0.00202 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,1-Dichloroethane | U | | 0.000614 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |

## o at e rgan c Compounds C/MS b Method 8260

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | U | | 0.000811 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,1-Dichloroethene | U | | 0.000757 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| cis-1,2-Dichloroethene | U | | 0.000918 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| trans-1,2-Dichloroethene | U | | 0.00130 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,2-Dichloropropane | U | | 0.00178 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,1-Dichloropropene | U | | 0.00101 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,3-Dichloropropane | U | | 0.000626 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| cis-1,3-Dichloropropene | U | | 0.000947 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| trans-1,3-Dichloropropene | U | | 0.00143 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 2,2-Dichloropropane | U | | 0.00173 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Di-isopropyl ether | U | | 0.000513 | 0.00125 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Ethylbenzene | U | | 0.000922 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Hexachloro-1,3-butadiene | U | | 0.00750 | 0.0313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Isopropylbenzene | U | | 0.000531 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| p-Isopropyltoluene | U | | 0.00319 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 2-Butanone (MEK) | U | | 0.0794 | 0.125 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Methylene Chloride | U | | 0.00830 | 0.0313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00285 | 0.0313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Methyl tert-butyl ether | U | | 0.000437 | 0.00125 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Naphthalene | U | | 0.00610 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| n-Propylbenzene | U | | 0.00119 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Styrene | 0.00153 | _ | 0.000286 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00119 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000869 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000942 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Tetrachloroethene | U | | 0.00112 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Toluene | U | | 0.00162 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,2,3-Trichlorobenzene | U | | 0.00917 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,2,4-Trichlorobenzene | U | | 0.00550 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,1,1-Trichloroethane | U | | 0.00116 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,1,2-Trichloroethane | U | | 0.000746 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Trichloroethene | U | | 0.000731 | 0.00125 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Trichlorofluoromethane | U | | 0.00103 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,2,3-Trichloropropane | U | | 0.00203 | 0.0156 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,2,4-Trimethylbenzene | U | | 0.00197 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,2,3-Trimethylbenzene | U | | 0.00197 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| 1,3,5-Trimethylbenzene | U | | 0.00250 | 0.00625 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Vinyl chloride | U | | 0.00145 | 0.00313 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| Xylenes, Total | U | | 0.00110 | 0.00812 | 1.21 | 09/12/2024 16:02 | WG2361217 |
| *(S) Toluene-d8* | *107* | | | *75.0-131* | | *09/12/2024 16:02* | WG2361217 |
| *(S) 4-Bromofluorobenzene* | *96.4* | | | *67.0-138* | | *09/12/2024 16:02* | WG2361217 |
| *(S) 1,2-Dichloroethane-d4* | *90.4* | | | *70.0-130* | | *09/12/2024 16:02* | WG2361217 |

## Sem - o at e rgan c Compounds C b Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 5.48 | 6 | 0.746 | 4.07 | 1 | 09/13/2024 10:32 | WG2361926 |
| *(S) o-Terphenyl* | *45.8* | | | *18.0-148* | | *09/13/2024 10:32* | WG2361926 |

## Ch or nated Ac d Herb c des C b Method 8151

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-D | U | 4 | 0.00715 | 0.0713 | 1 | 09/13/2024 20:49 | WG2360814 |
| Dalapon | U | | 0.0115 | 0.0713 | 1 | 09/16/2024 18:09 | WG2360814 |
| 2,4-DB | U | | 0.0302 | 0.0713 | 1 | 09/13/2024 20:49 | WG2360814 |
| Dicamba | U | | 0.0160 | 0.0713 | 1 | 09/13/2024 20:49 | WG2360814 |
| Dichloroprop | U | | 0.0249 | 0.0713 | 1 | 09/13/2024 20:49 | WG2360814 |
| Dinoseb | U | | 0.00710 | 0.0713 | 1 | 09/13/2024 20:49 | WG2360814 |
| MCPA | U | | 0.451 | 6.62 | 1 | 09/13/2024 20:49 | WG2360814 |
| MCPP | U | | 0.374 | 6.62 | 1 | 09/13/2024 20:49 | WG2360814 |
| 2,4,5-T | U | | 0.00868 | 0.0713 | 1 | 09/13/2024 20:49 | WG2360814 |
| 2,4,5-TP (Silvex) | U | | 0.0109 | 0.0713 | 1 | 09/13/2024 20:49 | WG2360814 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *65.5* | | | *22.0-132* | | *09/13/2024 20:49* | WG2360814 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *73.9* | | | *22.0-132* | | *09/16/2024 18:09* | WG2360814 |

## P Pest c des b Method 8141

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | U | | 0.0324 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Bolstar (Sulprofos) | U | | 0.0152 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Chlorpyrifos | U | | 0.0160 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Coumaphos | U | | 0.0247 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Demeton,-O and -S | U | | 0.00595 | 0.0713 | 1 | 09/13/2024 16:53 | WG2359686 |
| Diazinon | U | | 0.0229 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Dichlorvos | U | | 0.0305 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Dimethoate | U | | 0.0340 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Disulfoton | U | | 0.0259 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| EPN | U | | 0.0281 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Ethoprop | U | | 0.0120 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Ethyl Parathion | U | | 0.0167 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Fensulfothion | U | | 0.0359 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Fenthion | U | | 0.0135 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Malathion | U | | 0.0182 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Merphos | U | | 0.0236 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Methyl parathion | U | | 0.0207 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Mevinphos | U | | 0.0234 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Naled | U | | 0.0489 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Phorate | U | | 0.0214 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Ronnel | U | | 0.0152 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Stirophos | U | | 0.0181 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Sulfotep | U | | 0.0100 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| TEPP | U | 4 | 0.160 | 1.02 | 1 | 09/13/2024 16:53 | WG2359686 |
| Tokuthion (Prothothiofos) | U | | 0.0153 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| Trichloronate | U | | 0.0205 | 0.102 | 1 | 09/13/2024 16:53 | WG2359686 |
| *(S) Triphenyl Phosphate* | *94.3* | | | *36.0-121* | | *09/13/2024 16:53* | WG2359686 |

## Pest c des C b Method 8081

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Aldrin | U | | 0.00383 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Alpha BHC | U | | 0.00375 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Beta BHC | U | | 0.00386 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Delta BHC | U | | 0.00352 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Gamma BHC | U | | 0.00350 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| 4,4-DDD | U | | 0.00377 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| 4,4-DDE | U | | 0.00373 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |

## Pest c des C b Method 8081

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4,4-DDT | U | | 0.00638 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Dieldrin | U | | 0.00350 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Endosulfan I | U | | 0.00370 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Endosulfan II | U | | 0.00341 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Endosulfan sulfate | U | | 0.00371 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Endrin | U | | 0.00356 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Endrin aldehyde | U | | 0.00345 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Endrin ketone | U | | 0.00724 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Heptachlor | U | | 0.00436 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Heptachlor epoxide | U | | 0.00345 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Hexachlorobenzene | U | | 0.00352 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Methoxychlor | U | | 0.00493 | 0.0204 | 1 | 09/13/2024 15:40 | WG2361741 |
| Chlordane | U | | 0.105 | 0.305 | 1 | 09/13/2024 15:40 | WG2361741 |
| Toxaphene | U | | 0.126 | 0.407 | 1 | 09/13/2024 15:40 | WG2361741 |
| *(S) Decachlorobiphenyl* | *85.4* | | | *10.0-135* | | *09/13/2024 15:40* | WG2361741 |
| *(S) Tetrachloro-m-xylene* | *87.1* | | | *10.0-139* | | *09/13/2024 15:40* | WG2361741 |

## Sem o at e rgan c Compounds C/MS b Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0110 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Acenaphthylene | U | | 0.00955 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Anthracene | U | | 0.0121 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Benzidine | U | | 0.127 | 3.40 | 2 | 09/14/2024 00:38 | WG2361742 |
| Benzo(a)anthracene | U | | 0.0119 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Benzo(b)fluoranthene | U | | 0.0126 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Benzo(k)fluoranthene | U | | 0.0120 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Benzo(g,h,i)perylene | U | | 0.0124 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Benzo(a)pyrene | U | | 0.0126 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Bis(2-chlorethoxy)methane | U | | 0.0204 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Bis(2-chloroethyl)ether | U | | 0.0224 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0293 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 4-Bromophenyl-phenylether | U | | 0.0238 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2-Chloronaphthalene | U | | 0.0119 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 4-Chlorophenyl-phenylether | U | | 0.0236 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Chrysene | U | | 0.0134 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Dibenz(a,h)anthracene | U | | 0.0188 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 3,3-Dichlorobenzidine | U | | 0.0250 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2,4-Dinitrotoluene | U | | 0.0194 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2,6-Dinitrotoluene | U | | 0.0222 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Fluoranthene | U | | 0.0122 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Fluorene | U | | 0.0110 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Hexachlorobenzene | U | | 0.0240 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Hexachloro-1,3-butadiene | U | | 0.0228 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Hexachlorocyclopentadiene | U | | 0.0356 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Hexachloroethane | U | | 0.0267 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0191 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Isophorone | U | | 0.0208 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Naphthalene | U | | 0.0170 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Nitrobenzene | U | | 0.0236 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| n-Nitrosodimethylamine | U | | 0.101 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| n-Nitrosodiphenylamine | U | | 0.0513 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| n-Nitrosodi-n-propylamine | U | | 0.0226 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Phenanthrene | U | | 0.0134 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Benzylbutyl phthalate | U | | 0.0212 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0859 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |

## Sem o at e rgan c Compounds C/MS b Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Di-n-butyl phthalate | U | | 0.0232 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Diethyl phthalate | U | | 0.0224 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Dimethyl phthalate | U | | 0.144 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Di-n-octyl phthalate | U | | 0.0458 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Pyrene | U | | 0.0132 | 0.0678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 1,2,4-Trichlorobenzene | U | | 0.0212 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 4-Chloro-3-methylphenol | U | | 0.0220 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2-Chlorophenol | U | | 0.0224 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2,4-Dichlorophenol | U | | 0.0198 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2,4-Dimethylphenol | U | | 0.0177 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 4,6-Dinitro-2-methylphenol | U | | 0.154 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2,4-Dinitrophenol | U | | 0.159 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2-Nitrophenol | U | | 0.0242 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 4-Nitrophenol | U | | 0.0212 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Pentachlorophenol | U | | 0.0182 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| Phenol | U | | 0.0273 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| 2,4,6-Trichlorophenol | U | | 0.0218 | 0.678 | 2 | 09/14/2024 00:38 | WG2361742 |
| *(S) 2-Fluorophenol* | *62.7* | | | *12.0-120* | | *09/14/2024 00:38* | WG2361742 |
| *(S) Phenol-d5* | *56.8* | | | *10.0-120* | | *09/14/2024 00:38* | WG2361742 |
| *(S) Nitrobenzene-d5* | *55.8* | | | *10.0-122* | | *09/14/2024 00:38* | WG2361742 |
| *(S) 2-Fluorobiphenyl* | *59.1* | | | *15.0-120* | | *09/14/2024 00:38* | WG2361742 |
| *(S) 2,4,6-Tribromophenol* | *76.7* | | | *10.0-127* | | *09/14/2024 00:38* | WG2361742 |
| *(S) p-Terphenyl-d14* | *71.3* | | | *10.0-120* | | *09/14/2024 00:38* | WG2361742 |

**Sample Narrative:**

L1775992-11 WG2361742: Dilution due to matrix impact during extraction procedure

## Method an M

M 4118459-1 09/11/24 08:21

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.00100 | | | |

## L1775908-04 r g na Samp e S up cate UP

S L1775908-04 09/11/24 08:21 UP 4118459-3 09/11/24 08:21

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 91.9 | 91.3 | 1 | 0.725 | | 10 |

## Laborator Contro Samp e LCS

LCS 4118459-2 09/11/24 08:21

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 49.9 | 99.9 | 90.0-110 | |

## Method an M

M 4118973-1 09/12/24 11:27

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Mercury | U | | 0.0180 | 0.0400 |

## Laborator Contro Samp e LCS

LCS 4118973-2 09/12/24 11:30

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| Analyte | mg/kg | mg/kg | % | % | |
| Mercury | 0.500 | 0.479 | 95.8 | 80.0-120 | |

## L1775884-04 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775884-04 09/12/24 11:32 MS 4118973-4 09/12/24 11:37 MS 4118973-5 09/12/24 11:39

| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Mercury | 0.554 | U | 0.569 | 0.544 | 103 | 98.2 | 1 | 75.0-125 | | | 4.50 | 20 |

## Method an M

M 4120789-1 09/17/24 08:55

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Lead | U | | 0.208 | 0.500 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | U | | 0.127 | 1.00 |

## Laborator Contro Samp e LCS

LCS 4120789-2 09/17/24 08:56

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 97.7 | 97.7 | 80.0-120 | |
| Barium | 100 | 99.6 | 99.6 | 80.0-120 | |
| Cadmium | 100 | 97.9 | 97.9 | 80.0-120 | |
| Chromium | 100 | 100 | 100 | 80.0-120 | |
| Lead | 100 | 96.6 | 96.6 | 80.0-120 | |
| Selenium | 100 | 94.7 | 94.7 | 80.0-120 | |
| Silver | 20.0 | 19.2 | 96.2 | 80.0-120 | |

## L1776003-13 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776003-13 09/17/24 08:58 MS 4120789-5 09/17/24 09:03 MS 4120789-6 09/17/24 09:05

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 103 | 6.77 | 108 | 109 | 98.2 | 98.8 | 1 | 75.0-125 | | | 0.581 | 20 |
| Barium | 103 | 91.2 | 209 | 202 | 114 | 108 | 1 | 75.0-125 | | | 3.21 | 20 |
| Cadmium | 103 | U | 101 | 101 | 98.2 | 97.8 | 1 | 75.0-125 | | | 0.371 | 20 |
| Chromium | 103 | 23.4 | 130 | 129 | 103 | 103 | 1 | 75.0-125 | | | 0.0291 | 20 |
| Lead | 103 | 12.7 | 116 | 115 | 99.9 | 99.6 | 1 | 75.0-125 | | | 0.319 | 20 |
| Selenium | 103 | U | 100 | 101 | 97.4 | 97.7 | 1 | 75.0-125 | | | 0.295 | 20 |
| Silver | 20.6 | 1.52 | 22.5 | 22.4 | 102 | 101 | 1 | 75.0-125 | | | 0.555 | 20 |

## Method an M

M 4119968-3 09/12/24 16:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.69 | _ | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *105* | | | *77.0-120* |

## Laborator Contro Samp e LCS

LCS 4119968-2 09/12/24 15:08

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.23 | 84.6 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *106* | *77.0-120* | |

## Method an M

M 4119979-2 09/12/24 10:42

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method an M

M 4119979-2 09/12/24 10:42

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *82.4* | | | *70.0-130* |

## Laborator Contro Samp e LCS

LCS 4119979-1 09/12/24 09:28

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 0.795 | 127 | 10.0-160 | |
| Acrylonitrile | 0.625 | 0.669 | 107 | 45.0-153 | |
| Benzene | 0.125 | 0.102 | 81.6 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.118 | 94.4 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.109 | 87.2 | 73.0-121 | |

## Laborator Contro Samp e LCS

LCS 4119979-1 09/12/24 09:28

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.103 | 82.4 | 64.0-132 | |
| Bromomethane | 0.125 | 0.0787 | 63.0 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.0982 | 78.6 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.103 | 82.4 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.107 | 85.6 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.104 | 83.2 | 66.0-128 | |
| Chlorobenzene | 0.125 | 0.113 | 90.4 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.115 | 92.0 | 74.0-127 | |
| Chloroethane | 0.125 | 0.119 | 95.2 | 61.0-134 | |
| Chloroform | 0.125 | 0.102 | 81.6 | 72.0-123 | |
| Chloromethane | 0.125 | 0.176 | 141 | 51.0-138 | 4 |
| 2-Chlorotoluene | 0.125 | 0.114 | 91.2 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.110 | 88.0 | 75.0-124 | |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.104 | 83.2 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.111 | 88.8 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.105 | 84.0 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.116 | 92.8 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.108 | 86.4 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.113 | 90.4 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.119 | 95.2 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.118 | 94.4 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.107 | 85.6 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.119 | 95.2 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.102 | 81.6 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.101 | 80.8 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.129 | 103 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.105 | 84.0 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.115 | 92.0 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.104 | 83.2 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.113 | 90.4 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.0927 | 74.2 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.143 | 114 | 60.0-136 | |
| Ethylbenzene | 0.125 | 0.103 | 82.4 | 74.0-126 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.121 | 96.8 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.0987 | 79.0 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.104 | 83.2 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.653 | 104 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.112 | 89.6 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.763 | 122 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.102 | 81.6 | 66.0-132 | |

## Laborator Contro Samp e LCS

LCS 4119979-1 09/12/24 09:28

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.109 | 87.2 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.103 | 82.4 | 74.0-126 | |
| Styrene | 0.125 | 0.107 | 85.6 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.114 | 91.2 | 74.0-129 | |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.115 | 92.0 | 68.0-128 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.106 | 84.8 | 61.0-139 | |
| Tetrachloroethene | 0.125 | 0.116 | 92.8 | 70.0-136 | |
| Toluene | 0.125 | 0.107 | 85.6 | 75.0-121 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.120 | 96.0 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.125 | 100 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.100 | 80.0 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.111 | 88.8 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.118 | 94.4 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.103 | 82.4 | 61.0-142 | |
| 1,2,3-Trichloropropane | 0.125 | 0.116 | 92.8 | 67.0-129 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.101 | 80.8 | 70.0-126 | |
| 1,2,3-Trimethylbenzene | 0.125 | 0.106 | 84.8 | 74.0-124 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.108 | 86.4 | 73.0-127 | |
| Vinyl chloride | 0.125 | 0.116 | 92.8 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.314 | 83.7 | 72.0-127 | |
| *(S) Toluene-d8* | | | *106* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *99.4* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *102* | *70.0-130* | |

## Method an M

M 4119472-1 09/13/24 09:27

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| *(S) o-Terphenyl* | *91.4* | | | *18.0-148* |

## Laborator Contro Samp e LCS

LCS 4119472-2 09/13/24 09:40

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 50.0 | 35.0 | 70.0 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *74.5* | *18.0-148* | |

## L1775992-11 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775992-11 09/13/24 10:32 MS 4119472-3 09/13/24 10:46 MS 4119472-4 09/13/24 10:59

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 50.9 | 5.48 | 19.6 | 20.5 | 27.6 | 29.4 | 1 | 50.0-150 | 6 | 6 | 4.58 | 20 |
| *(S) o-Terphenyl* | | | | | *28.7* | *32.4* | | *18.0-148* | | | | |

## Method an M

M 4119914-1 09/13/24 16:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| 2,4-D | U | | 0.00702 | 0.0700 |
| Dalapon | U | | 0.0113 | 0.0700 |
| 2,4-DB | U | | 0.0297 | 0.0700 |
| Dicamba | U | | 0.0157 | 0.0700 |
| Dichloroprop | U | | 0.0245 | 0.0700 |
| Dinoseb | U | | 0.00697 | 0.0700 |
| MCPA | U | | 0.443 | 6.50 |
| MCPP | U | | 0.367 | 6.50 |
| 2,4,5-T | U | | 0.00852 | 0.0700 |
| 2,4,5-TP (Silvex) | U | | 0.0107 | 0.0700 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *80.8* | | | *22.0-132* |

## Laborator Contro Samp e LCS

LCS 4119914-2 09/13/24 17:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,4-D | 0.0833 | 0.114 | 137 | 40.0-120 | 4 |
| Dalapon | 0.0833 | 0.0770 | 92.4 | 15.0-120 | |
| 2,4-DB | 0.0833 | 0.0858 | 103 | 25.0-143 | |
| Dicamba | 0.0833 | 0.0747 | 89.7 | 43.0-120 | |
| Dichloroprop | 0.0833 | 0.0745 | 89.4 | 32.0-129 | |
| Dinoseb | 0.0833 | 0.0224 | 26.9 | 10.0-120 | |
| MCPA | 8.33 | 8.23 | 98.8 | 31.0-121 | |
| MCPP | 8.33 | 7.22 | 86.7 | 28.0-133 | |
| 2,4,5-T | 0.0833 | 0.0850 | 102 | 41.0-120 | |
| 2,4,5-TP (Silvex) | 0.0833 | 0.0689 | 82.7 | 42.0-120 | |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | | | *83.8* | *22.0-132* | |

## L1776587-11 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776587-11 09/13/24 21:00 MS 4119914-3 09/13/24 21:12 MS 4119914-4 09/13/24 21:23

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.0848 | U | 0.105 | 0.106 | 124 | 125 | 1 | 10.0-160 | | | 0.966 | 24 |
| Dalapon | 0.0848 | U | 0.0583 | 0.0528 | 68.7 | 62.1 | 1 | 10.0-121 | | | 9.75 | 27 |
| 2,4-DB | 0.0848 | U | 0.0516 | 0.0557 | 60.8 | 65.4 | 1 | 10.0-160 | | | 7.62 | 22 |

## L1776587-11 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776587-11 09/13/24 21:00 MS 4119914-3 09/13/24 21:12 MS 4119914-4 09/13/24 21:23

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Dicamba | 0.0848 | U | 0.0579 | 0.0553 | 68.2 | 64.9 | 1 | 10.0-154 | | | 4.52 | 21 |
| Dichloroprop | 0.0848 | U | 0.0642 | 0.0654 | 75.7 | 76.8 | 1 | 10.0-158 | | | 1.89 | 20 |
| Dinoseb | 0.0848 | U | 0.0447 | 0.0509 | 52.7 | 59.8 | 1 | 10.0-120 | | | 13.0 | 40 |
| MCPA | 8.48 | U | 15.3 | 14.5 | 181 | 170 | 1 | 10.0-160 | 5 | 5 | 5.48 | 40 |
| MCPP | 8.48 | U | 10.0 | 8.11 | 118 | 95.2 | 1 | 10.0-160 | | | 21.4 | 40 |
| 2,4,5-T | 0.0848 | U | 0.0732 | 0.0744 | 86.3 | 87.4 | 1 | 10.0-157 | | | 1.66 | 20 |
| 2,4,5-TP (Silvex) | 0.0848 | U | 0.0601 | 0.0628 | 70.8 | 73.7 | 1 | 10.0-156 | | | 4.33 | 20 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | | | | | *74.1* | *74.9* | | *22.0-132* | | | | |

## Method an M

M 4119330-1 09/12/24 10:51

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Azinphos-Methyl | U | | 0.0318 | 0.100 |
| Bolstar (Sulprofos) | U | | 0.0149 | 0.100 |
| Chlorpyrifos | U | | 0.0157 | 0.100 |
| Coumaphos | U | | 0.0243 | 0.100 |
| Demeton,-O and -S | U | | 0.00584 | 0.0700 |
| Diazinon | U | | 0.0225 | 0.100 |
| Dichlorvos | U | | 0.0300 | 0.100 |
| Dimethoate | U | | 0.0334 | 0.100 |
| Disulfoton | U | | 0.0254 | 0.100 |
| EPN | U | | 0.0276 | 0.100 |
| Ethoprop | U | | 0.0118 | 0.100 |
| Ethyl Parathion | U | | 0.0164 | 0.100 |
| Fensulfothion | U | | 0.0353 | 0.100 |
| Fenthion | U | | 0.0133 | 0.100 |
| Malathion | U | | 0.0179 | 0.100 |
| Merphos | U | | 0.0232 | 0.100 |
| Methyl parathion | U | | 0.0203 | 0.100 |
| Mevinphos | U | | 0.0230 | 0.100 |
| Naled | U | | 0.0480 | 0.100 |
| Phorate | U | | 0.0210 | 0.100 |
| Ronnel | U | | 0.0149 | 0.100 |
| Stirophos | U | | 0.0178 | 0.100 |
| Sulfotep | U | | 0.00986 | 0.100 |
| TEPP | U | | 0.157 | 1.00 |
| Tokuthion (Prothothiofos) | U | | 0.0150 | 0.100 |
| Trichloronate | U | | 0.0201 | 0.100 |
| *(S) Triphenyl Phosphate* | *114* | | | *36.0-121* |

## Laborator Contro Samp e LCS

LCS 4119330-2 09/12/24 11:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Azinphos-Methyl | 0.333 | 0.285 | 85.6 | 58.0-125 | |
| Bolstar (Sulprofos) | 0.333 | 0.307 | 92.2 | 64.0-120 | |
| Chlorpyrifos | 0.333 | 0.316 | 94.9 | 62.0-120 | |
| Coumaphos | 0.333 | 0.306 | 91.9 | 60.0-120 | |
| Demeton,-O and -S | 0.167 | 0.145 | 86.8 | 59.0-120 | |
| Diazinon | 0.333 | 0.307 | 92.2 | 49.0-120 | |

## Laborator Contro Samp e LCS

LCS 4119330-2 09/12/24 11:24

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Dichlorvos | 0.333 | 0.175 | 52.6 | 37.0-120 | |
| Dimethoate | 0.333 | 0.188 | 56.5 | 46.0-127 | |
| Disulfoton | 0.333 | 0.289 | 86.8 | 60.0-121 | |
| EPN | 0.333 | 0.319 | 95.8 | 60.0-121 | |
| Ethoprop | 0.333 | 0.311 | 93.4 | 59.0-120 | |
| Ethyl Parathion | 0.333 | 0.337 | 101 | 62.0-120 | |
| Fensulfothion | 0.333 | 0.214 | 64.3 | 58.0-123 | |
| Fenthion | 0.333 | 0.319 | 95.8 | 61.0-121 | |
| Malathion | 0.333 | 0.322 | 96.7 | 59.0-120 | |
| Merphos | 0.333 | 0.227 | 68.2 | 59.0-120 | |
| Methyl parathion | 0.333 | 0.303 | 91.0 | 63.0-120 | |
| Mevinphos | 0.333 | 0.216 | 64.9 | 50.0-120 | |
| Naled | 0.333 | 0.101 | 30.3 | 10.0-125 | |
| Phorate | 0.333 | 0.298 | 89.5 | 60.0-120 | |
| Ronnel | 0.333 | 0.286 | 85.9 | 62.0-120 | |
| Stirophos | 0.333 | 0.289 | 86.8 | 62.0-120 | |
| Sulfotep | 0.333 | 0.367 | 110 | 62.0-122 | |
| TEPP | 3.33 | 0.000 | 0.000 | 10.0-135 | 4 |
| Tokuthion (Prothothiofos) | 0.333 | 0.307 | 92.2 | 63.0-120 | |
| Trichloronate | 0.333 | 0.326 | 97.9 | 62.0-120 | |
| *(S) Triphenyl Phosphate* | | | *95.8* | *36.0-121* | |

## L1775071-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775071-01 09/12/24 11:58 MS 4119330-3 09/12/24 12:31 MS 4119330-4 09/12/24 13:04

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | 0.333 | U | 0.300 | 0.452 | 90.1 | 136 | 1 | 10.0-160 | | 3 | 40.4 | 22 |
| Bolstar (Sulprofos) | 0.333 | U | 0.303 | 0.462 | 91.0 | 139 | 1 | 10.0-151 | | 3 | 41.6 | 20 |
| Chlorpyrifos | 0.333 | U | 0.315 | 0.461 | 94.6 | 138 | 1 | 12.0-149 | | 3 | 37.6 | 20 |
| Coumaphos | 0.333 | U | 0.310 | 0.453 | 93.1 | 136 | 1 | 10.0-160 | | 3 | 37.5 | 22 |
| Demeton,-O and -S | 0.167 | U | 0.175 | U | 105 | 0.000 | 1 | 10.0-160 | | 3 6 | 200 | 23 |
| Diazinon | 0.333 | U | 0.310 | 0.394 | 93.1 | 118 | 1 | 11.0-157 | | 3 | 23.9 | 20 |
| Dichlorvos | 0.333 | U | 0.268 | 0.306 | 80.5 | 91.9 | 1 | 10.0-160 | | | 13.2 | 24 |
| Dimethoate | 0.333 | U | 0.306 | 0.467 | 91.9 | 140 | 1 | 10.0-150 | | 3 | 41.7 | 27 |
| Disulfoton | 0.333 | 0.191 | 0.490 | U | 89.8 | 0.000 | 1 | 12.0-155 | | 3 6 | 200 | 20 |
| EPN | 0.333 | U | 0.332 | 0.499 | 99.7 | 150 | 1 | 10.0-159 | | 3 | 40.2 | 20 |
| Ethoprop | 0.333 | U | 0.313 | 0.421 | 94.0 | 126 | 1 | 11.0-156 | | 3 | 29.4 | 20 |
| Ethyl Parathion | 0.333 | U | 0.349 | 0.520 | 105 | 156 | 1 | 10.0-147 | | 3 5 | 39.4 | 20 |

## L1775071-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775071-01 09/12/24 11:58 MS 4119330-3 09/12/24 12:31 MS 4119330-4 09/12/24 13:04

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fensulfothion | 0.333 | U | 0.313 | 0.455 | 94.0 | 137 | 1 | 10.0-157 | | 3 | 37.0 | 27 |
| Fenthion | 0.333 | U | 0.321 | 0.475 | 96.4 | 143 | 1 | 13.0-155 | | 3 | 38.7 | 20 |
| Malathion | 0.333 | U | 0.333 | 0.495 | 100 | 149 | 1 | 13.0-137 | | 3 5 | 39.1 | 21 |
| Merphos | 0.333 | U | 0.255 | 0.375 | 76.6 | 113 | 1 | 10.0-147 | | 3 | 38.1 | 26 |
| Methyl parathion | 0.333 | U | 0.310 | 0.462 | 93.1 | 139 | 1 | 10.0-150 | | 3 | 39.4 | 21 |
| Mevinphos | 0.333 | U | 0.260 | 0.309 | 78.1 | 92.8 | 1 | 10.0-158 | | | 17.2 | 24 |
| Naled | 0.333 | U | 0.206 | 0.230 | 61.9 | 69.1 | 1 | 10.0-137 | | | 11.0 | 40 |
| Phorate | 0.333 | U | 0.290 | 0.393 | 87.1 | 118 | 1 | 13.0-154 | | 3 | 30.2 | 20 |
| Ronnel | 0.333 | U | 0.305 | 0.428 | 91.6 | 129 | 1 | 14.0-149 | | 3 | 33.6 | 20 |
| Stirophos | 0.333 | U | 0.302 | 0.436 | 90.7 | 131 | 1 | 10.0-150 | | 3 | 36.3 | 20 |
| Sulfotep | 0.333 | U | 0.373 | 0.515 | 112 | 155 | 1 | 10.0-160 | | 3 | 32.0 | 20 |
| TEPP | 3.33 | U | 0.895 | 0.460 | 26.9 | 13.8 | 1 | 10.0-142 | | 3 | 64.2 | 28 |
| Tokuthion (Prothothiofos) | 0.333 | U | 0.305 | 0.457 | 91.6 | 137 | 1 | 12.0-153 | | 3 | 39.9 | 20 |
| Trichloronate | 0.333 | U | 0.319 | 0.455 | 95.8 | 137 | 1 | 12.0-152 | | 3 | 35.1 | 20 |
| *(S) Triphenyl Phosphate* | | | | | *98.2* | *139* | | *36.0-121* | | 1 | | |

## L1775074-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775074-01 09/12/24 14:44 MS 4119330-5 09/12/24 15:17 MS 4119330-6 09/12/24 15:50

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | 0.333 | U | 0.316 | 0.408 | 94.9 | 123 | 1 | 10.0-160 | | 3 | 25.4 | 22 |
| Bolstar (Sulprofos) | 0.333 | U | 0.337 | 0.435 | 101 | 131 | 1 | 10.0-151 | | 3 | 25.4 | 20 |
| Chlorpyrifos | 0.333 | U | 0.358 | 0.454 | 108 | 136 | 1 | 12.0-149 | | 3 | 23.6 | 20 |
| Coumaphos | 0.333 | U | 0.346 | 0.442 | 104 | 133 | 1 | 10.0-160 | | 3 | 24.4 | 22 |
| Demeton,-O and -S | 0.167 | U | 0.175 | 0.227 | 105 | 136 | 1 | 10.0-160 | | 3 | 25.9 | 23 |
| Diazinon | 0.333 | U | 0.346 | 0.444 | 104 | 133 | 1 | 11.0-157 | | 3 | 24.8 | 20 |
| Dichlorvos | 0.333 | U | 0.305 | 0.414 | 91.6 | 124 | 1 | 10.0-160 | | 3 | 30.3 | 24 |
| Dimethoate | 0.333 | U | 0.318 | 0.416 | 95.5 | 125 | 1 | 10.0-150 | | | 26.7 | 27 |
| Disulfoton | 0.333 | U | 0.305 | 0.399 | 91.6 | 120 | 1 | 12.0-155 | | 3 | 26.7 | 20 |
| EPN | 0.333 | U | 0.371 | 0.478 | 111 | 144 | 1 | 10.0-159 | | 3 | 25.2 | 20 |
| Ethoprop | 0.333 | U | 0.333 | 0.431 | 100 | 129 | 1 | 11.0-156 | | 3 | 25.7 | 20 |
| Ethyl Parathion | 0.333 | U | 0.389 | 0.505 | 117 | 152 | 1 | 10.0-147 | | 3 5 | 26.0 | 20 |
| Fensulfothion | 0.333 | U | 0.321 | 0.416 | 96.4 | 125 | 1 | 10.0-157 | | | 25.8 | 27 |
| Fenthion | 0.333 | U | 0.357 | 0.447 | 107 | 134 | 1 | 13.0-155 | | 3 | 22.4 | 20 |
| Malathion | 0.333 | U | 0.365 | 0.472 | 110 | 142 | 1 | 13.0-137 | | 3 5 | 25.6 | 21 |
| Merphos | 0.333 | U | 0.270 | 0.377 | 81.1 | 113 | 1 | 10.0-147 | | 3 | 33.1 | 26 |
| Methyl parathion | 0.333 | U | 0.346 | 0.441 | 104 | 132 | 1 | 10.0-150 | | 3 | 24.1 | 21 |
| Mevinphos | 0.333 | U | 0.218 | 0.291 | 65.5 | 87.4 | 1 | 10.0-158 | | 3 | 28.7 | 24 |

## L1775074-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775074-01 09/12/24 14:44 MS 4119330-5 09/12/24 15:17 MS 4119330-6 09/12/24 15:50

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Naled | 0.333 | U | 0.116 | 0.117 | 34.8 | 35.1 | 1 | 10.0-137 | | | 0.858 | 40 |
| Phorate | 0.333 | U | 0.294 | 0.401 | 88.3 | 120 | 1 | 13.0-154 | | 3 | 30.8 | 20 |
| Ronnel | 0.333 | U | 0.329 | 0.422 | 98.8 | 127 | 1 | 14.0-149 | | 3 | 24.8 | 20 |
| Stirophos | 0.333 | U | 0.334 | 0.425 | 100 | 128 | 1 | 10.0-150 | | 3 | 24.0 | 20 |
| Sulfotep | 0.333 | U | 0.406 | 0.521 | 122 | 156 | 1 | 10.0-160 | | 3 | 24.8 | 20 |
| TEPP | 3.33 | U | 0.475 | 0.569 | 14.3 | 17.1 | 1 | 10.0-142 | - | - | 18.0 | 28 |
| Tokuthion (Prothothiofos) | 0.333 | U | 0.337 | 0.439 | 101 | 132 | 1 | 12.0-153 | | 3 | 26.3 | 20 |
| Trichloronate | 0.333 | U | 0.354 | 0.461 | 106 | 138 | 1 | 12.0-152 | | 3 | 26.3 | 20 |
| *(S) Triphenyl Phosphate* | | | | | *111* | *136* | | *36.0-121* | | 1 | | |

## L1775077-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775077-01 09/12/24 16:57 MS 4119330-7 09/12/24 17:30 MS 4119330-8 09/12/24 18:04

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | 0.333 | U | 0.334 | 0.489 | 100 | 147 | 1 | 10.0-160 | | 3 | 37.7 | 22 |
| Bolstar (Sulprofos) | 0.333 | U | 0.338 | 0.489 | 102 | 147 | 1 | 10.0-151 | | 3 | 36.5 | 20 |
| Chlorpyrifos | 0.333 | U | 0.357 | 0.517 | 107 | 155 | 1 | 12.0-149 | | 3 5 | 36.6 | 20 |
| Coumaphos | 0.333 | U | 0.354 | 0.511 | 106 | 153 | 1 | 10.0-160 | | 3 | 36.3 | 22 |
| Demeton,-O and -S | 0.167 | U | 0.181 | 0.291 | 108 | 174 | 1 | 10.0-160 | | 3 5 | 46.6 | 23 |
| Diazinon | 0.333 | U | 0.349 | 0.512 | 105 | 154 | 1 | 11.0-157 | | 3 | 37.9 | 20 |
| Dichlorvos | 0.333 | U | 0.356 | 0.513 | 107 | 154 | 1 | 10.0-160 | | 3 | 36.1 | 24 |
| Dimethoate | 0.333 | U | 0.357 | 0.507 | 107 | 152 | 1 | 10.0-150 | | 3 5 | 34.7 | 27 |
| Disulfoton | 0.333 | U | 0.325 | 0.498 | 97.6 | 150 | 1 | 12.0-155 | | 3 | 42.0 | 20 |
| EPN | 0.333 | U | 0.376 | 0.539 | 113 | 162 | 1 | 10.0-159 | | 3 5 | 35.6 | 20 |
| Ethoprop | 0.333 | U | 0.354 | 0.520 | 106 | 156 | 1 | 11.0-156 | | 3 | 38.0 | 20 |
| Ethyl Parathion | 0.333 | U | 0.395 | 0.567 | 119 | 170 | 1 | 10.0-147 | | 3 5 | 35.8 | 20 |
| Fensulfothion | 0.333 | U | 0.362 | 0.525 | 109 | 158 | 1 | 10.0-157 | | 3 5 | 36.8 | 27 |
| Fenthion | 0.333 | U | 0.357 | 0.518 | 107 | 156 | 1 | 13.0-155 | | 3 5 | 36.8 | 20 |
| Malathion | 0.333 | U | 0.379 | 0.547 | 114 | 164 | 1 | 13.0-137 | | 3 5 | 36.3 | 21 |
| Merphos | 0.333 | U | 0.278 | 0.401 | 83.5 | 120 | 1 | 10.0-147 | | 3 | 36.2 | 26 |
| Methyl parathion | 0.333 | U | 0.347 | 0.511 | 104 | 153 | 1 | 10.0-150 | | 3 5 | 38.2 | 21 |
| Mevinphos | 0.333 | U | 0.302 | 0.456 | 90.7 | 137 | 1 | 10.0-158 | | 3 | 40.6 | 24 |
| Naled | 0.333 | U | 0.0995 | 0.144 | 29.9 | 43.2 | 1 | 10.0-137 | - | | 36.6 | 40 |
| Phorate | 0.333 | U | 0.316 | 0.456 | 94.9 | 137 | 1 | 13.0-154 | | 3 | 36.3 | 20 |
| Ronnel | 0.333 | U | 0.335 | 0.478 | 101 | 144 | 1 | 14.0-149 | | 3 | 35.2 | 20 |
| Stirophos | 0.333 | U | 0.346 | 0.496 | 104 | 149 | 1 | 10.0-150 | | 3 | 35.6 | 20 |
| Sulfotep | 0.333 | U | 0.415 | 0.595 | 125 | 179 | 1 | 10.0-160 | | 3 5 | 35.6 | 20 |
| TEPP | 3.33 | U | 1.53 | 3.63 | 45.9 | 109 | 1 | 10.0-142 | | 3 | 81.4 | 28 |

## L1775077-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775077-01 09/12/24 16:57 MS 4119330-7 09/12/24 17:30 MS 4119330-8 09/12/24 18:04

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tokuthion (Prothiofos) | 0.333 | U | 0.333 | 0.492 | 100 | 148 | 1 | 12.0-153 | | 3 | 38.5 | 20 |
| Trichloronate | 0.333 | U | 0.367 | 0.527 | 110 | 158 | 1 | 12.0-152 | | 3 5 | 35.8 | 20 |
| *(S) Triphenyl Phosphate* | | | | | *112* | *156* | | *36.0-121* | | 1 | | |

## Method an M

M 4119775-1 09/13/24 13:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Aldrin | U | | 0.00376 | 0.0200 |
| Alpha BHC | U | | 0.00368 | 0.0200 |
| Beta BHC | U | | 0.00379 | 0.0200 |
| Delta BHC | U | | 0.00346 | 0.0200 |
| Gamma BHC | U | | 0.00344 | 0.0200 |
| 4,4-DDD | U | | 0.00370 | 0.0200 |
| 4,4-DDE | U | | 0.00366 | 0.0200 |
| 4,4-DDT | U | | 0.00627 | 0.0200 |
| Dieldrin | U | | 0.00344 | 0.0200 |
| Endosulfan I | U | | 0.00363 | 0.0200 |
| Endosulfan II | U | | 0.00335 | 0.0200 |
| Endosulfan sulfate | U | | 0.00364 | 0.0200 |
| Endrin | U | | 0.00350 | 0.0200 |
| Endrin aldehyde | U | | 0.00339 | 0.0200 |
| Endrin ketone | U | | 0.00711 | 0.0200 |
| Heptachlor | U | | 0.00428 | 0.0200 |
| Heptachlor epoxide | U | | 0.00339 | 0.0200 |
| Hexachlorobenzene | U | | 0.00346 | 0.0200 |
| Methoxychlor | U | | 0.00484 | 0.0200 |
| Chlordane | U | | 0.103 | 0.300 |
| Toxaphene | U | | 0.124 | 0.400 |
| *(S) Decachlorobiphenyl* | *76.6* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *81.8* | | | *10.0-139* |

## Laborator Contro Samp e LCS

LCS 4119775-2 09/13/24 14:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Aldrin | 0.0666 | 0.0589 | 88.4 | 34.0-136 | |
| Alpha BHC | 0.0666 | 0.0585 | 87.8 | 34.0-139 | |
| Beta BHC | 0.0666 | 0.0554 | 83.2 | 34.0-133 | |
| Delta BHC | 0.0666 | 0.0556 | 83.5 | 34.0-135 | |
| Gamma BHC | 0.0666 | 0.0587 | 88.1 | 34.0-136 | |
| 4,4-DDD | 0.0666 | 0.0591 | 88.7 | 33.0-141 | |
| 4,4-DDE | 0.0666 | 0.0580 | 87.1 | 34.0-134 | |
| 4,4-DDT | 0.0666 | 0.0588 | 88.3 | 30.0-143 | |
| Dieldrin | 0.0666 | 0.0589 | 88.4 | 35.0-137 | |
| Endosulfan I | 0.0666 | 0.0570 | 85.6 | 34.0-134 | |

## Laborator Contro Samp e LCS

LCS 4119775-2 09/13/24 14:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Endosulfan II | 0.0666 | 0.0583 | 87.5 | 35.0-132 | |
| Endosulfan sulfate | 0.0666 | 0.0564 | 84.7 | 35.0-132 | |
| Endrin | 0.0666 | 0.0562 | 84.4 | 34.0-137 | |
| Endrin aldehyde | 0.0666 | 0.0541 | 81.2 | 23.0-121 | |
| Endrin ketone | 0.0666 | 0.0592 | 88.9 | 35.0-144 | |
| Heptachlor | 0.0666 | 0.0585 | 87.8 | 36.0-141 | |
| Heptachlor epoxide | 0.0666 | 0.0579 | 86.9 | 36.0-134 | |
| Hexachlorobenzene | 0.0666 | 0.0567 | 85.1 | 33.0-129 | |
| Methoxychlor | 0.0666 | 0.0561 | 84.2 | 28.0-150 | |
| *(S) Decachlorobiphenyl* | | | *84.2* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *93.2* | *10.0-139* | |

## L1775077-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775077-01 09/13/24 14:12 MS 4119775-3 09/13/24 14:22 MS 4119775-4 09/13/24 14:32

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.0659 | U | 0.0583 | 0.0474 | 88.5 | 72.6 | 1 | 20.0-135 | | | 20.6 | 37 |
| Alpha BHC | 0.0659 | U | 0.0571 | 0.0462 | 86.6 | 70.8 | 1 | 27.0-140 | | | 21.1 | 35 |
| Beta BHC | 0.0659 | U | 0.0542 | 0.0443 | 82.2 | 67.8 | 1 | 23.0-141 | | | 20.1 | 37 |
| Delta BHC | 0.0659 | U | 0.0542 | 0.0440 | 82.2 | 67.4 | 1 | 21.0-138 | | | 20.8 | 35 |
| Gamma BHC | 0.0659 | U | 0.0574 | 0.0466 | 87.1 | 71.4 | 1 | 27.0-137 | | | 20.8 | 36 |
| 4,4-DDD | 0.0659 | U | 0.0629 | 0.0509 | 95.4 | 77.9 | 1 | 15.0-152 | | | 21.1 | 39 |
| 4,4-DDE | 0.0659 | 0.0387 | 0.111 | 0.0876 | 110 | 74.9 | 1 | 10.0-152 | | | 23.6 | 40 |
| 4,4-DDT | 0.0659 | U | 0.0606 | 0.0491 | 92.0 | 75.2 | 1 | 10.0-151 | | | 21.0 | 40 |
| Dieldrin | 0.0659 | U | 0.0615 | 0.0515 | 93.3 | 78.9 | 1 | 17.0-145 | | | 17.7 | 37 |
| Endosulfan I | 0.0659 | U | 0.0577 | 0.0466 | 87.6 | 71.4 | 1 | 20.0-137 | | | 21.3 | 36 |
| Endosulfan II | 0.0659 | U | 0.0618 | 0.0506 | 93.8 | 77.5 | 1 | 15.0-141 | | | 19.9 | 37 |
| Endosulfan sulfate | 0.0659 | U | 0.0552 | 0.0462 | 83.8 | 70.8 | 1 | 15.0-143 | | | 17.8 | 38 |
| Endrin | 0.0659 | U | 0.0582 | 0.0485 | 88.3 | 74.3 | 1 | 19.0-143 | | | 18.2 | 37 |
| Endrin aldehyde | 0.0659 | U | 0.0602 | 0.0509 | 91.4 | 77.9 | 1 | 10.0-139 | | | 16.7 | 40 |
| Endrin ketone | 0.0659 | U | 0.0580 | 0.0481 | 88.0 | 73.7 | 1 | 17.0-149 | | | 18.7 | 38 |
| Heptachlor | 0.0659 | U | 0.0580 | 0.0472 | 88.0 | 72.3 | 1 | 22.0-138 | | | 20.5 | 37 |
| Heptachlor epoxide | 0.0659 | U | 0.0583 | 0.0474 | 88.5 | 72.6 | 1 | 22.0-138 | | | 20.6 | 36 |
| Hexachlorobenzene | 0.0659 | U | 0.0553 | 0.0455 | 83.9 | 69.7 | 1 | 25.0-126 | | | 19.4 | 35 |
| Methoxychlor | 0.0659 | U | 0.0639 | 0.0538 | 97.0 | 82.4 | 1 | 10.0-159 | | | 17.2 | 40 |
| *(S) Decachlorobiphenyl* | | | | | *95.8* | *88.4* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *93.2* | *85.5* | | *10.0-139* | | | | |

## Method an M

M 4120207-3 09/13/24 21:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |

## Method an M

M 4120207-3 09/13/24 21:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *72.8* | | | *12.0-120* |
| *(S) Phenol-d5* | *67.7* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *59.2* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *68.8* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *68.2* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *76.9* | | | *10.0-120* |

## Laborator Contro Samp e LCS

LCS 4120207-1 09/13/24 21:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.543 | 81.5 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.539 | 80.9 | 40.0-120 | |
| Anthracene | 0.666 | 0.606 | 91.0 | 42.0-120 | |
| Benzidine | 1.33 | 0.571 | 42.9 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.592 | 88.9 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.602 | 90.4 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.621 | 93.2 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.572 | 85.9 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.623 | 93.5 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.436 | 65.5 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.593 | 89.0 | 16.0-120 | |
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.494 | 74.2 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.627 | 94.1 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.524 | 78.7 | 35.0-120 | |

## Laborator Contro Samp e LCS

LCS 4120207-1 09/13/24 21:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 4-Chlorophenyl-phenylether | 0.666 | 0.578 | 86.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.609 | 91.4 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.618 | 92.8 | 44.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 1.07 | 80.5 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.615 | 92.3 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.582 | 87.4 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.628 | 94.3 | 44.0-120 | |
| Fluorene | 0.666 | 0.569 | 85.4 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.587 | 88.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.448 | 67.3 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.411 | 61.7 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.466 | 70.0 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.569 | 85.4 | 45.0-120 | |
| Isophorone | 0.666 | 0.422 | 63.4 | 23.0-120 | |
| Naphthalene | 0.666 | 0.441 | 66.2 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.412 | 61.9 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.453 | 68.0 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.589 | 88.4 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.492 | 73.9 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.600 | 90.1 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.577 | 86.6 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.575 | 86.3 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.593 | 89.0 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.576 | 86.5 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.557 | 83.6 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.564 | 84.7 | 40.0-120 | |
| Pyrene | 0.666 | 0.592 | 88.9 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.438 | 65.8 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.439 | 65.9 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.523 | 78.5 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.468 | 70.3 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.457 | 68.6 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.564 | 84.7 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.389 | 58.4 | 10.0-120 | |
| 2-Nitrophenol | 0.666 | 0.464 | 69.7 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.568 | 85.3 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.529 | 79.4 | 29.0-120 | |
| Phenol | 0.666 | 0.504 | 75.7 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.501 | 75.2 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *79.4* | *12.0-120* | |

## Laborator Contro Samp e LCS

LCS 4120207-1 09/13/24 21:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| *(S) Phenol-d5* | | | *75.5* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *54.1* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *78.4* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *90.4* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *81.1* | *10.0-120* | |

## L1776754-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776754-01 09/14/24 03:03 MS 4120207-4 09/14/24 03:24 MS 4120207-5 09/14/24 03:44

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.737 | U | 0.670 | 0.537 | 90.8 | 74.4 | 10 | 18.0-120 | | | 22.0 | 32 |
| Acenaphthylene | 0.737 | U | 0.610 | 0.521 | 82.7 | 72.2 | 10 | 25.0-120 | | | 15.7 | 32 |
| Anthracene | 0.737 | 0.101 | 0.785 | 0.615 | 92.7 | 71.2 | 10 | 22.0-120 | | | 24.2 | 29 |
| Benzidine | 1.47 | U | U | U | 0.000 | 0.000 | 10 | 10.0-120 | 6 | 6 | 0.000 | 40 |
| Benzo(a)anthracene | 0.737 | 0.241 | 1.05 | 0.733 | 109 | 68.1 | 10 | 25.0-120 | | 3 | 35.4 | 29 |
| Benzo(b)fluoranthene | 0.737 | 0.414 | 1.31 | 1.02 | 121 | 84.0 | 10 | 19.0-122 | | | 24.5 | 31 |
| Benzo(k)fluoranthene | 0.737 | 0.136 | 0.880 | 0.749 | 101 | 85.0 | 10 | 23.0-120 | | | 16.0 | 30 |
| Benzo(g,h,i)perylene | 0.737 | 0.187 | 0.593 | 0.433 | 55.1 | 34.0 | 10 | 10.0-120 | | | 31.3 | 33 |
| Benzo(a)pyrene | 0.737 | 0.253 | 1.04 | 0.788 | 107 | 74.1 | 10 | 24.0-120 | | | 27.5 | 30 |
| Bis(2-chlorethoxy)methane | 0.737 | U | 0.623 | 0.538 | 84.5 | 74.5 | 10 | 10.0-120 | | | 14.7 | 34 |
| Bis(2-chloroethyl)ether | 0.737 | U | 0.686 | 0.620 | 93.1 | 85.9 | 10 | 10.0-120 | | | 10.2 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.737 | U | 0.632 | 0.575 | 85.7 | 79.8 | 10 | 10.0-120 | | | 9.35 | 40 |
| 4-Bromophenyl-phenylether | 0.737 | U | 0.672 | 0.587 | 91.1 | 81.3 | 10 | 27.0-120 | | | 13.5 | 30 |
| 2-Chloronaphthalene | 0.737 | U | 0.590 | 0.502 | 80.0 | 69.6 | 10 | 20.0-120 | | | 16.0 | 32 |
| 4-Chlorophenyl-phenylether | 0.737 | U | 0.653 | 0.543 | 88.6 | 75.3 | 10 | 24.0-120 | | | 18.3 | 29 |
| Chrysene | 0.737 | 0.225 | 1.10 | 0.754 | 119 | 73.3 | 10 | 21.0-120 | | 3 | 37.7 | 29 |
| Dibenz(a,h)anthracene | 0.737 | U | 0.459 | 0.332 | 62.3 | 46.0 | 10 | 10.0-120 | | 3 | 32.2 | 32 |
| 3,3-Dichlorobenzidine | 1.47 | U | 0.356 | 0.465 | 24.2 | 32.3 | 10 | 10.0-120 | | | 26.4 | 34 |
| 2,4-Dinitrotoluene | 0.737 | U | 0.590 | 0.407 | 80.0 | 56.4 | 10 | 30.0-120 | | 3 | 36.6 | 31 |
| 2,6-Dinitrotoluene | 0.737 | U | 0.634 | 0.482 | 86.0 | 66.9 | 10 | 25.0-120 | | | 27.2 | 31 |
| Fluoranthene | 0.737 | 0.550 | 1.58 | 0.955 | 140 | 56.1 | 10 | 18.0-126 | 5 | 3 | 49.5 | 32 |
| Fluorene | 0.737 | U | 0.676 | 0.561 | 91.7 | 77.8 | 10 | 25.0-120 | | | 18.6 | 30 |
| Hexachlorobenzene | 0.737 | 3.31 | 0.907 | 0.724 | 0.000 | 0.000 | 10 | 27.0-120 | | | 22.5 | 28 |
| Hexachloro-1,3-butadiene | 0.737 | U | 0.679 | 0.557 | 92.2 | 77.1 | 10 | 10.0-120 | | | 19.9 | 38 |
| Hexachlorocyclopentadiene | 0.737 | U | U | U | 4.73 | 1.95 | 10 | 10.0-120 | 6 | 3 6 | 85.1 | 40 |
| Hexachloroethane | 0.737 | U | 0.398 | 0.340 | 54.1 | 47.1 | 10 | 10.0-120 | | | 15.9 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.737 | 0.163 | 0.671 | 0.418 | 68.9 | 35.4 | 10 | 10.0-120 | | 3 | 46.3 | 32 |
| Isophorone | 0.737 | U | 0.621 | 0.539 | 84.2 | 74.7 | 10 | 13.0-120 | | | 14.1 | 34 |

L1776754-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776754-01 09/14/24 03:03 MS 4120207-4 09/14/24 03:24 MS 4120207-5 09/14/24 03:44

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.737 | U | 0.694 | 0.615 | 94.1 | 85.3 | 10 | 10.0-120 | | | 12.0 | 35 |
| Nitrobenzene | 0.737 | U | 0.620 | 0.527 | 84.1 | 73.0 | 10 | 10.0-120 | | | 16.2 | 36 |
| n-Nitrosodimethylamine | 0.737 | U | 0.644 | U | 87.4 | 0.000 | 10 | 10.0-127 | | 3 6 | 200 | 40 |
| n-Nitrosodiphenylamine | 0.737 | U | 0.650 | 0.565 | 88.1 | 78.4 | 10 | 17.0-120 | | | 13.8 | 29 |
| n-Nitrosodi-n-propylamine | 0.737 | U | 0.634 | 0.583 | 86.0 | 80.8 | 10 | 10.0-120 | | | 8.36 | 37 |
| Phenanthrene | 0.737 | 0.399 | 1.16 | 0.774 | 103 | 51.8 | 10 | 17.0-120 | | 3 | 40.1 | 31 |
| Benzylbutyl phthalate | 0.737 | U | 0.729 | 0.681 | 98.9 | 94.3 | 10 | 23.0-120 | | | 6.91 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.737 | 12.4 | 8.75 | 2.53 | 0.000 | 0.000 | 10 | 17.0-126 | | 3 | 110 | 30 |
| Di-n-butyl phthalate | 0.737 | U | 0.718 | 0.645 | 97.4 | 89.4 | 10 | 30.0-120 | | | 10.7 | 29 |
| Diethyl phthalate | 0.737 | U | 0.629 | 0.546 | 85.3 | 75.6 | 10 | 26.0-120 | | | 14.1 | 28 |
| Dimethyl phthalate | 0.737 | U | U | U | 82.4 | 71.9 | 10 | 25.0-120 | | | 15.7 | 29 |
| Di-n-octyl phthalate | 0.737 | U | 0.749 | 0.626 | 102 | 86.8 | 10 | 21.0-123 | | | 17.9 | 29 |
| Pyrene | 0.737 | 0.461 | 1.39 | 0.940 | 127 | 66.3 | 10 | 16.0-121 | 5 | 3 | 39.0 | 32 |
| 1,2,4-Trichlorobenzene | 0.737 | U | 0.629 | 0.549 | 85.3 | 76.1 | 10 | 12.0-120 | | | 13.5 | 37 |
| 4-Chloro-3-methylphenol | 0.737 | U | 0.645 | 0.600 | 87.5 | 83.1 | 10 | 15.0-120 | | | 7.29 | 30 |
| 2-Chlorophenol | 0.737 | U | 0.629 | 0.557 | 85.3 | 77.1 | 10 | 15.0-120 | | | 12.1 | 37 |
| 2,4-Dichlorophenol | 0.737 | U | 0.611 | 0.535 | 82.9 | 74.1 | 10 | 20.0-120 | | | 13.3 | 31 |
| 2,4-Dimethylphenol | 0.737 | U | 0.629 | 0.546 | 85.3 | 75.6 | 10 | 10.0-120 | | | 14.1 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.737 | U | U | U | 13.3 | 0.000 | 10 | 10.0-120 | | 3 6 | 200 | 39 |
| 2,4-Dinitrophenol | 0.666 | U | U | U | 0.000 | 0.000 | 10 | 10.0-121 | 6 | 6 | 0.000 | 40 |
| 2-Nitrophenol | 0.737 | U | 0.544 | 0.419 | 73.9 | 58.1 | 10 | 12.0-120 | | | 25.9 | 39 |
| 4-Nitrophenol | 0.737 | U | 0.590 | 0.440 | 80.0 | 61.0 | 10 | 10.0-137 | | | 29.0 | 32 |
| Pentachlorophenol | 0.737 | U | 0.563 | 0.476 | 76.4 | 66.0 | 10 | 10.0-160 | | | 16.8 | 31 |
| Phenol | 0.737 | U | 0.609 | 0.515 | 82.6 | 71.3 | 10 | 12.0-120 | | | 16.7 | 38 |
| 2,4,6-Trichlorophenol | 0.737 | U | 0.536 | 0.486 | 72.7 | 67.3 | 10 | 19.0-120 | | | 9.75 | 32 |
| *(S) 2-Fluorophenol* | | | | | *91.1* | *80.4* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *80.6* | *72.1* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *66.4* | *67.2* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *80.8* | *69.6* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *86.2* | *77.3* | | *10.0-127* | | | | |
| *(S) p-Terphenyl-d14* | | | | | *82.0* | *76.7* | | *10.0-120* | | | | |

**Sample Narrative:**

OS: Dilution due to matrix impact during extraction procedure

## u de to ead ng and Understand ng our Laborator eport

The nformat on be o s des gned to better e p a n the ar ous terms used n our report of ana t ca resu ts from the Laborator Th s s not ntended as a comprehens e e p anat on, and f ou ha e add t ona uest ons p ease contact our project representat e

esu ts sc a mer - Informat on that ma be pro ded b the customer, and conta ned th n th s report, nc ude Perm t L m ts, Project ame, Samp e I , Samp e Matr , Samp e Preser at on, e d an s, e d Sp es, e d up cates, n-S te ata, Samp ng Co ect on ates/T mes, and Samp ng Locat on esu ts re ate to the accurac of th s nformat on pro ded, and as the samp es are rece ed

## Abbre at ons and ef n t ons

| | |
|---|---|
| dr | esu ts are reported based on the dr e ght of the samp e th s on be present on a dr report bas s for so s |
| M L | Method etect on L m t |
| M L dr | Method etect on L m t |
| L | eported etect on L m t |
| L dr | eported etect on L m t |
| ec | eco er |
| P | e at e Percent fference |
| S | Samp e e er roup |
| S | Surrogate Surrogate Standard - Ana tes added to e er b an , samp e, Laborator Contro Samp e/ up cate and Matr Sp e/ up cate used to e a uate ana t ca eff c enc b measur ng reco er Surrogates are not e pected to be detected n a en ronmenta med a |
| U | ot detected at the eport ng L m t or M L here app cab e |
| Ana te | The name of the part cu ar compound or ana s s performed Some Ana ses and Methods ha e mu t p e ana tes reported |
| ut on | If the samp e matr conta ns an nterfer ng mater a , the samp e preparat on o ume or e ght a ues d ffer from the standard, or f concentrat ons of ana tes n the samp e are h gher than the h ghest m t of concentrat on that the aborator can accurate report, the samp e ma be d uted for ana s s If a a ue d fferent than 1 s used n th s f e d, the resu t reported has a read been corrected for th s factor |
| L m ts | These are the target reco er ranges or d fference a ue that the aborator has h stor ca determ ned as norma for the method and ana te be ng reported Successfu C Samp e ana s s target a ana tes reco ered or dup cated th n these ranges |
| r g na Samp e | The non-sp ed samp e n the prep batch used to determ ne the e at e Percent fference P from a ua t contro samp e The r g na Samp e ma not be nc uded th n the reported S |
| ua f er | Th s co umn pro des a etter and/or number des gnat on that corresponds to add t ona nformat on concern ng the resu t reported If a ua f er s present, a def n t on per ua f er s pro ded th n the ossar and ef n t ons page and potent a a d scuss on of poss b e mp cat ons of the ua f er n the Case arrat e f app cab e |
| esu t | The actua ana t ca f na resu t corrected for an samp e spec f c character st cs reported for our samp e If there as no measurab e resu t returned for a spec f c ana te, the resu t n th s co umn ma state ot etected or L e o etectab e Le e s The nformat on n the resu ts co umn shou d a a s be accompan ed b e ther an M L Method etect on L m t or L eport ng etect on L m t that def nes the o est a ue that the aborator cou d detect or report for th s ana te |
| Uncerta nt ad ochem str | Conf dence e e of 2 s gma |
| Case arrat e Cn | A br ef d scuss on about the nc uded samp e resu ts, nc ud ng a d scuss on of an non-conformances to protoco obser ed e ther at samp e rece pt b the aborator from the f e d or dur ng the ana t ca process If present, there be a sect on n the Case arrat e to d scuss the mean ng of an data ua f ers used n the report |
| ua t Contro Summar c | Th s sect on of the report nc udes the resu ts of the aborator ua t contro ana ses re u red b procedure or ana t ca methods to ass st n e a uat ng the a d t of the resu ts reported for our samp es These ana ses are not be ng performed on our samp es t p ca , but on aborator generated mater a |
| Samp e Cha n of Custod Sc | Th s s the document created n the f e d hen our samp es ere n t a co ected Th s s used to er f the t me and date of co ect on, the person co ect ng the samp es, and the ana ses that the aborator s re uested to perform Th s cha n of custod a so documents a persons e c ud ng commerc a sh ppers that ha e had contro or possess on of the samp es from the t me of co ect on unt de er to the aborator for ana s s |
| Samp e esu ts Sr | Th s sect on of our report pro de the resu ts of a test ng performed on our samp es These resu ts are pro ded b samp e I and are separated b the ana ses performed on each samp e The header ne of each ana s s sect on for each samp e pro de the name and method number for the ana s s reported |
| Samp e Summar Ss | Th s sect on of the Ana t ca eport def nes the spec f c ana ses performed for each samp e I , nc ud ng the dates and t mes of preparat on and/or ana s s |

## ua f er escr pt on

| | |
|---|---|
| | The same ana te s found n the assoc ated b an |
| | The dent f cat on of the ana te s acceptab e the reported a ue s an est mate |
| 1 | Surrogate reco er m ts ha e been e ceeded a ues are outs de upper contro m ts |
| 3 | The assoc ated batch C as outs de the estab shed ua t contro range for prec s on |
| 4 | The assoc ated batch C as outs de the estab shed ua t contro range for accurac |
| 5 | The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s h gh |
| 6 | The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s o |
| | The samp e concentrat on s too h gh to e a uate accurate sp e reco er es |

# ACC E ITATI S L CATI S

## Pace Ana t ca at ona 12065 Lebanon d Mount u et, T 37122

| | | | |
|---|---|---|---|
| Ala ama | | Ne raska | N OS |
| Alaska | | Nevada | N |
| Ari ona | A | Ne ampshire | |
| Arkansas | | Ne ersey N LAP | N |
| California | | Ne Me ico | N |
| Colorado | N | Ne ork | |
| Connecticut | P | North Carolina | nv |
| lorida | | North Carolina | D |
| eorgia | N LAP | North Carolina | |
| eorgia | | North Dakota | R |
| daho | N | Ohio AP | CL |
| llinois | | Oklahoma | |
| ndiana | C N | Oregon | N |
| o a | | Pennsylvania | |
| ansas | | Rhode sland | LAO |
| entucky | | South Carolina | |
| entucky | | South Dakota | n a |
| Louisiana | A | ennessee | |
| Louisiana | LA | e as | |
| Maine | N | e as | LAB |
| Maryland | | Utah | N |
| Massachusetts | M N | ermont | |
| Michigan | | irginia | |
| Minnesota | | ashington | C |
| Mississippi | N | est irginia | |
| Missouri | | isconsin | |
| Montana | C R | yoming | A LA |
| A LA SO | . | A A LAP LLC MLAP | |
| A LA SO | . | DOD | . |
| Canada | . | USDA | P |
| PA Crypto | N | | |

Drinking ater Underground Storage anks A uatic o icity Chemical Micro iological Mold aste ater n a Accreditation not applica le
Not all certifications held y the la oratory are applica le to the results reported in the attached report.
Accreditation is only applica le to the test methods specified on each scope of accreditation held y Pace Analytical.

Company Name/Address:
**Tetra Tech EMI - Houston, TX**

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Marc Wodarczyk

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCA, SV8270 8ozClr-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | MRCRA8 8ozClr-NoPres | SV8081,SV8141,SV8151 8ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area 2-1-0.5 | Grab | SS | 0-0.5 | 9/9/24 | 0925 | 3 | | | | | | Hold Sample -21 | |
| Area 2-1-2 | | SS | 1-2 | | 0930 | | | | | | | Hold Sample -22 | |
| Area 2-2-0.5 | | SS | 0-0.5 | | 0945 | | | | | | | Hold Sample -23 | |
| Area 2-2-2 | | SS | 1-2 | | 0950 | | | | | | | Hold Sample -24 | |
| Area 2-3-0.5 | | SS | 0-0.5 | | 1000 | | | | | | | Hold Sample -25 | |
| Area 2-3-2 | | SS | 1-2 | | 1005 | | | | | | | Hold Sample -26 | |
| Area 2-4-0.5 | | SS | 0-0.5 | | 1015 | | | | | | | Hold Sample -27 | |
| Area 2-4-2 | | SS | 1-2 | | 1020 | | | | | | | Hold Sample -28 | |
| Area 2-5-0.5 | | SS | 0-0.5 | | 1025 | | | | | | | Hold Sample -29 | |
| Area 2-5-2 | ↓ | SS | 1-2 | ↓ | 1030 | ✓ | | | | | | Hold Sample -30 | |

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

SDG # L1775992
D234

Acctnum: TETRAHTX
Template: T259254
Prelogin: P1097698
PM: 3564 - Chad A Upchurch
PB:

Shipped Via: FedEX Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: All discrete soil samples will be placed on hold for the same analyses at the laboratory pending the results of the Composite soil samples.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeOH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| [signature] | 9/9/24 | 1500 | | 1 | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: 33 | |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) DDM 9/10 | Date: 9.10.24 Time: 0814 | Hold: Condition: NCF / OK |

CONFIDENTIAL
No reliance without separate reliance agreement.

Company Name/Address:
**Tetra Tech EMI - Houston, TX**

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Mark Wodarczyk

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservation

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCA, SV8270 8ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | MRCRA8 8ozClr-NoPres | SV8081,SV8141,SV8151 8ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area 2 - Comp | Comp | SS | 0-0.5 | 9/9/24 | 1055 | 3 | X | X | X | X | X | | | | | | -4 |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
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| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | |

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

SDG # L1279472

Table #

Acctnum: TETRAHTX
Template: T259254
Prelogin: P1097698
PM: 3564 - Chad A Upchurch
PB:

Shipped Via: FedEX Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No / MeoH / TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| | 9/9/24 | 1700 | | 1 | |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: 33 | |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9.10.24 Time: 0844 | Hold: Condition: NCF / OK |

CONFIDENTIAL
No reliance without separate reliance agreement.

No reliance without separate reliance agreement.

| Fed Ex tracking # | Gun ID | Temperature |
|---|---|---|
| 4029169 8085 | TLA9 | a31.3=a6 |
| 4102 9169 8096 | TLA9 | 2.46.3=2.7 |
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| | | |

Name

9.10.24
Date

CONFIDENTIAL

# ANALYTICAL REPORT

ctober 25, 2024

## Tetra Tech EMI - Houston, TX

Samp e e er roup: L1791058

Samp es ece ed: 09/10/2024

Project umber:

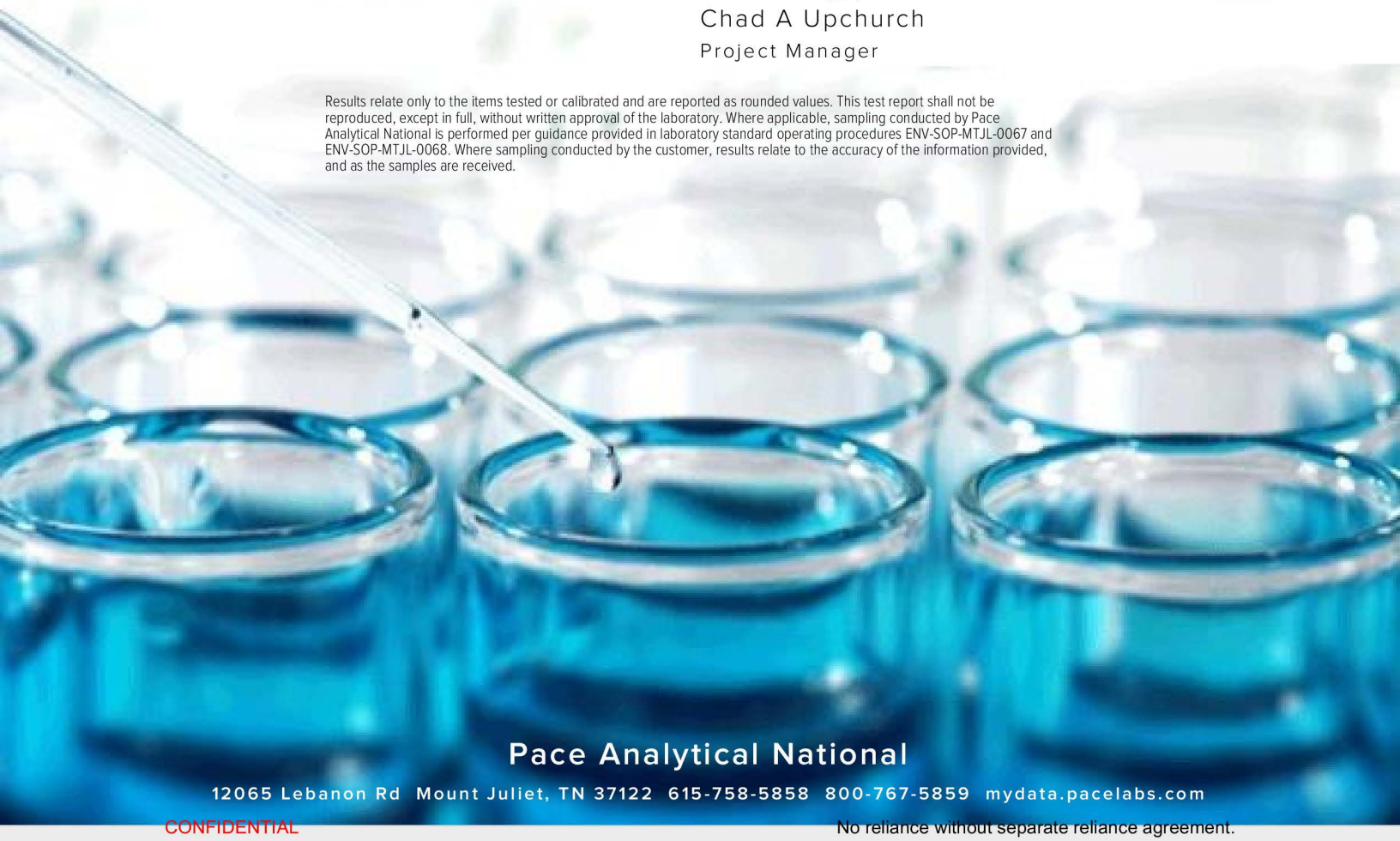
escr pt on: Horton - C e er Cross ng Phase II

eport To: ana E dam/Manue a Pastrano
1500 C t est ou e ard
Su te 1000
Houston, TX 77042

Ent re eport e e ed :

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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## A EA2-1-0 5 L1791058-01 So d

Collected by: Maxx Wlodarczyk | Collected date/time: 09/09/24 09:25 | Received date/time: 09/10/24 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2387054 | 1 | 10/24/24 08:13 | 10/24/24 08:20 | CMB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2387991 | 1 | 10/23/24 20:53 | 10/24/24 11:45 | JTM | Mt. Juliet, TN |

## A EA2-2-0 5 L1791058-02 So d

Collected by: Maxx Wlodarczyk | Collected date/time: 09/09/24 09:45 | Received date/time: 09/10/24 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2387054 | 1 | 10/24/24 08:13 | 10/24/24 08:20 | CMB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2387991 | 1 | 10/23/24 20:53 | 10/24/24 11:46 | JTM | Mt. Juliet, TN |

## A EA2-3-0 5 L1791058-03 So d

Collected by: Maxx Wlodarczyk | Collected date/time: 09/09/24 10:00 | Received date/time: 09/10/24 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2387054 | 1 | 10/24/24 08:13 | 10/24/24 08:20 | CMB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2387991 | 1 | 10/23/24 20:53 | 10/24/24 11:51 | JTM | Mt. Juliet, TN |

## A EA2-4-0 5 L1791058-04 So d

Collected by: Maxx Wlodarczyk | Collected date/time: 09/09/24 10:15 | Received date/time: 09/10/24 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2387054 | 1 | 10/24/24 08:13 | 10/24/24 08:20 | CMB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2387991 | 1 | 10/23/24 20:53 | 10/24/24 11:53 | JTM | Mt. Juliet, TN |

## A EA2-5-0 5 L1791058-05 So d

Collected by: Maxx Wlodarczyk | Collected date/time: 09/09/24 10:25 | Received date/time: 09/10/24 08:45

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2387054 | 1 | 10/24/24 08:13 | 10/24/24 08:20 | CMB | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2387991 | 1 | 10/23/24 20:53 | 10/24/24 11:55 | JTM | Mt. Juliet, TN |

# CASE A ATI E

A samp e a uots ere rece ed at the correct temperature, n the proper conta ners, th the appropr ate preser at es, and th n method spec f ed ho d ng t mes, un ess ua f ed or notated th n the report here app cab e, a M L L and L L a ues reported for en ronmenta samp es ha e been corrected for the d ut on factor used n the ana s s A Method and atch ua t Contro are th n estab shed cr ter a e cept here addressed n th s case narrat e, a non-conformance form or proper ua f ed th n the samp e resu ts m d g ta s gnature be o , l aff rm to the best of m no edge, a prob ems/anoma es obser ed b the aborator as ha ng the potent a to affect the ua t of the data ha e been dent f ed b the aborator , and no nformat on or data ha e been no ng thhe d that ou d affect the ua t of the data

Chad A Upchurch
Project Manager

## Tota So ds b Method 2540 -2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.7 | T8 | 1 | 10/24/2024 08:20 | WG2387054 |

## Meta s ICP b Method 6010

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 12.7 | | 0.536 | 2.07 | 1 | 10/24/2024 11:45 | WG2387991 |

## Tota So ds b Method 2540 -2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.1 | T8 | 1 | 10/24/2024 08:20 | WG2387054 |

## Meta s ICP b Method 6010

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 15.4 | | 0.534 | 2.06 | 1 | 10/24/2024 11:46 | WG2387991 |

## Tota So ds b Method 2540 -2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 98.4 | T8 | 1 | 10/24/2024 08:20 | WG2387054 |

## Meta s ICP b Method 6010

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 11.8 | | 0.526 | 2.03 | 1 | 10/24/2024 11:51 | WG2387991 |

## Tota So ds b Method 2540 -2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.4 | T8 | 1 | 10/24/2024 08:20 | WG2387054 |

## Meta s ICP b Method 6010

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 18.5 | | 0.532 | 2.05 | 1 | 10/24/2024 11:53 | WG2387991 |

## Tota So ds b Method 2540 -2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.9 | T8 | 1 | 10/24/2024 08:20 | WG2387054 |

## Meta s ICP b Method 6010

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 13.9 | | 0.529 | 2.04 | 1 | 10/24/2024 11:55 | WG2387991 |

## Method an M

M 4137129-1 10/24/24 08:20

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1790941-11 r g na Samp e S up cate UP

S L1790941-11 10/24/24 08:20 UP 4137129-3 10/24/24 08:20

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 81.4 | 80.7 | 1 | 0.869 | | 10 |

## Laborator Contro Samp e LCS

LCS 4137129-2 10/24/24 08:20

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method an M

M 4137086-1 10/24/24 11:11

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.518 | 2.00 |

## Laborator Contro Samp e LCS

LCS 4137086-2 10/24/24 11:12

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 107 | 107 | 80.0-120 | |

## L1790865-03 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1790865-03 10/24/24 11:14 MS 4137086-5 10/24/24 11:19 MS 4137086-6 10/24/24 11:21

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 140 | 1.34 | 139 | 143 | 98.4 | 101 | 1 | 75.0-125 | | | 2.78 | 20 |

## u de to ead ng and Understand ng our Laborator eport

The nformat on be o s des gned to better e p a n the ar ous terms used n our report of ana t ca resu ts from the Laborator Th s s not ntended as a comprehens e e p anat on, and f ou ha e add t ona uest ons p ease contact our project representat e

esu ts sc a mer - Informat on that ma be pro ded b the customer, and conta ned th n th s report, nc ude Perm t L m ts, Project ame, Samp e I , Samp e Matr , Samp e Preser at on, e d an s, e d Sp es, e d up cates, n-S te ata, Samp ng Co ect on ates/T mes, and Samp ng Locat on esu ts re ate to the accurac of th s nformat on pro ded, and as the samp es are rece ed

## Abbre at ons and ef n t ons

| | |
|---|---|
| dr | esu ts are reported based on the dr e ght of the samp e th s on be present on a dr report bas s for so s |
| M L | Method etect on L m t |
| M L dr | Method etect on L m t |
| L | eported etect on L m t |
| L dr | eported etect on L m t |
| ec | eco er |
| P | e at e Percent fference |
| S | Samp e e er roup |
| U | ot detected at the eport ng L m t or M L here app cab e |
| Ana te | The name of the part cu ar compound or ana s s performed Some Ana ses and Methods ha e mu t p e ana tes reported |
| ut on | If the samp e matr conta ns an nterfer ng mater a , the samp e preparat on o ume or e ght a ues d ffer from the standard, or f concentrat ons of ana tes n the samp e are h gher than the h ghest m t of concentrat on that the aborator can accurate report, the samp e ma be d uted for ana s s If a a ue d fferent than 1 s used n th s f e d, the resu t reported has a read been corrected for th s factor |
| L m ts | These are the target reco er ranges or d fference a ue that the aborator has h stor ca determ ned as norma for the method and ana te be ng reported Successfu C Samp e ana s s target a ana tes reco ered or dup cated th n these ranges |
| r g na Samp e | The non-sp ed samp e n the prep batch used to determ ne the e at e Percent fference P from a ua t contro samp e The r g na Samp e ma not be nc uded th n the reported S |
| ua f er | Th s co umn pro des a etter and/or number des gnat on that corresponds to add t ona nformat on concern ng the resu t reported If a ua f er s present, a def n t on per ua f er s pro ded th n the ossar and ef n t ons page and potent a a d scuss on of poss b e mp cat ons of the ua f er n the Case arrat e f app cab e |
| esu t | The actua ana t ca f na resu t corrected for an samp e spec f c character st cs reported for our samp e If there as no measurab e resu t returned for a spec f c ana te, the resu t n th s co umn ma state ot etected or L e o etectab e Le e s The nformat on n the resu ts co umn shou d a a s be accompan ed b e ther an M L Method etect on L m t or L eport ng etect on L m t that def nes the o est a ue that the aborator cou d detect or report for th s ana te |
| Uncerta nt ad ochem str | Conf dence e e of 2 s gma |
| Case arrat e Cn | A br ef d scuss on about the nc uded samp e resu ts, nc ud ng a d scuss on of an non-conformances to protoco obser ed e ther at samp e rece pt b the aborator from the f e d or dur ng the ana t ca process If present, there be a sect on n the Case arrat e to d scuss the mean ng of an data ua f ers used n the report |
| ua t Contro Summar c | Th s sect on of the report nc udes the resu ts of the aborator ua t contro ana ses re u red b procedure or ana t ca methods to ass st n e a uat ng the a d t of the resu ts reported for our samp es These ana ses are not be ng performed on our samp es t p ca , but on aborator generated mater a |
| Samp e Cha n of Custod Sc | Th s s the document created n the f e d hen our samp es ere n t a co ected Th s s used to er f the t me and date of co ect on, the person co ect ng the samp es, and the ana ses that the aborator s re uested to perform Th s cha n of custod a so documents a persons e c ud ng commerc a sh ppers that ha e had contro or possess on of the samp es from the t me of co ect on unt de er to the aborator for ana s s |
| Samp e esu ts Sr | Th s sect on of our report pro de the resu ts of a test ng performed on our samp es These resu ts are pro ded b samp e I and are separated b the ana ses performed on each samp e The header ne of each ana s s sect on for each samp e pro de the name and method number for the ana s s reported |
| Samp e Summar Ss | Th s sect on of the Ana t ca eport def nes the spec f c ana ses performed for each samp e I , nc ud ng the dates and t mes of preparat on and/or ana s s |

## ua f er escr pt on

| | |
|---|---|
| T8 | Samp e s rece ed past/too c ose to ho d ng t me e p rat on |

# ACC E ITATI S L CATI S

## Pace Ana t ca at ona 12065 Lebanon d Mount u et, T 37122

| | | | |
|---|---|---|---|
| Ala ama | | Ne raska | N OS |
| Alaska | | Nevada | N |
| Ari ona | A | Ne ampshire | |
| Arkansas | | Ne ersey N LAP | N |
| California | | Ne Me ico | N |
| Colorado | N | Ne ork | |
| Connecticut | P | North Carolina | nv |
| lorida | | North Carolina | D |
| eorgia | N LAP | North Carolina | |
| eorgia | | North Dakota | R |
| daho | N | Ohio AP | CL |
| llinois | | Oklahoma | |
| ndiana | C N | Oregon | N |
| o a | | Pennsylvania | |
| ansas | | Rhode sland | LAO |
| entucky | | South Carolina | |
| entucky | | South Dakota | n a |
| Louisiana | A | ennessee | |
| Louisiana | LA | e as | |
| Maine | N | e as | LAB |
| Maryland | | Utah | N |
| Massachusetts | M N | ermont | |
| Michigan | | irginia | |
| Minnesota | | ashington | C |
| Mississippi | N | est irginia | |
| Missouri | | isconsin | |
| Montana | C R | yoming | A LA |
| A LA SO | . | A A LAP LLC MLAP | |
| A LA SO | . | DOD | . |
| Canada | . | USDA | P |
| PA Crypto | N | | |

Drinking ater Underground Storage anks A uatic o icity Chemical Micro iological Mold aste ater n a Accreditation not applica le
Not all certifications held y the la oratory are applica le to the results reported in the attached report.
Accreditation is only applica le to the test methods specified on each scope of accreditation held y Pace Analytical.

Company Name/Address:
**Tetra Tech EMI - Houston, TX**

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres. Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
OR Horton - [COR] Keller Crossing Phase II

City/State Collected:

Please Circle: FT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Marc Wiedorczyk

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | GROCA, SVE270 8ozCl-NoPres | GROCA 40mlAmb/MeOH 10ml/Syr | MRCRA8 8ozCl-NoPres | SV0081,SV0141,SV0151 8ozCl-NoPres | V8260 40mlAmb/MeOH 10ml/Syr | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area 2-1-0.5 | Grab | SS | 0-0.5 | 9/9/24 | 0925 | 3 | | | | | | Hold Sample | -01 |
| Area 2-1-2 | | SS | 1-2 | | 0930 | | | | | | | Hold Sample | |
| Area 2-2-0.5 | | SS | 0-0.5 | | 0945 | | | | | | | Hold Sample | -02 |
| Area 2-2-2 | | SS | 1-2 | | 0950 | | | | | | | Hold Sample | |
| Area 2-3-0.5 | | SS | 0-0.5 | | 1000 | | | | | | | Hold Sample | -03 |
| Area 2-3-2 | | SS | 1-2 | | 1005 | | | | | | | Hold Sample | |
| Area 2-4-0.5 | | SS | 0-0.5 | | 1015 | | | | | | | Hold Sample | -04 |
| Area 2-4-2 | | SS | 1-2 | | 1070 | | | | | | | Hold Sample | |
| Area 2-5-0.5 | | SS | 0-0.5 | | 1025 | | | | | | | Hold Sample | -05 |
| Area 2-5-2 | ↓ | SS | 1-2 | ↓ | 1030 | ✓ | | | | | | Hold Sample | |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: All discrete soil samples will be placed on hold for the same analyses at the laboratory pending the results of the Composite Soil Samples

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
___ UPS ___ FedEx ___ Courier _____

Tracking #

Relinquished by: (Signature) — Date: 9/9/24 — Time: 1500

Received by: (Signature)

Trip Blank Received: Yes / No — 1 — HCL / Meoh — TBR

Relinquished by: (Signature) — Date: — Time:

Received by: (Signature)

Temp: °C — Bottles Received: 33

If preservation required by Login: Date/Time

Relinquished by: (Signature) — Date: — Time:

Received for lab by: (Signature) — DQ 9.10.24

Date: 9.10.24 — Time: 0945

Hold: — Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: ___NP ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles Arrive Intact: ___Y ___N
Correct Bottles Used: ___Y ___N
Sufficient Volume Sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N
RAD Screen <0.5 mR/hr: ___Y ___N

Chain of Custody Page 1 of 2

Pace
MT JULIET, TN

SDG # D234
L1791058

Acctnum: TETRAHTX
Template: T259254
Prelogin: P1097698
PM: 3564 - Chad A Upchurch
PB:
Shipped Via: FedEx Priority

10/21/24

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## L1775992 *TETRAHTX* - RELOG

R5

Please RELOG the samples below for ASICP, TS:

L1775992-01
L1775992-03
L1775992-05
L1775992-07
L1775992-09

From: Pastrano, Manuela <manuela.pastrano@tetratech.com>
Sent: Monday, October 21, 2024 10:48 AM
To: Chad Upchurch <Chad.Upchurch@pacelabs.com>; Eldam, Diana <Diana.Eldam@tetratech.com>
Subject: RE: Pace Analytical National Level II Report & EDD for DR Horton - (COR) Keller Crossing Phase II L1777125

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Hi Chad,

Can you release the following samples for arsenic analysis?

Area 2-1 0.5

Area 2-2 0.5

Area 2-3 0.5
Area 2-4 0.5
Area 2-5 0.5

Thanks,

Manuela Pastrano | Environmental Scientist II
Mobile (504) 444-1724
Manuela.Pastrano@tetratech.com<mailto:Manuela.Pastrano@tetratech.com>

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From: Chad Upchurch <Chad.Upchurch@pacelabs.com<mailto:Chad.Upchurch@pacelabs.com>>
Sent: Friday, October 11, 2024 1:25 PM
To: Pastrano, Manuela <manuela.pastrano@tetratech.com<mailto:manuela.pastrano@tetratech.com>>; Eldam, Diana <Diana.Eldam@tetratech.com<mailto:Diana.Eldam@tetratech.com>>
Subject: RE: Pace Analytical National Level II Report & EDD for DR Horton - (COR) Keller Crossing Phase II L1777125

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Hi Manuela,

The revised report attached includes both sets of data for SVOCs by method 8270 (starting on page 9 of 42).

Thanks,

Chad Upchurch
Project Manager | National
12065 Lebanon Road | Mt. Juliet, TN 37122
(615) 773-9668 | www.pacelabs.com<http://www.pacelabs.com/>

From: Pastrano, Manuela
<manuela.pastrano@tetratech.com<mailto:manuela.pastrano@tetratech.com>>
Sent: Friday, October 11, 2024 11:55 AM
To: Chad Upchurch <Chad.Upchurch@pacelabs.com<mailto:Chad.Upchurch@pacelabs.com>>; Eldam, Diana <Diana.Eldam@tetratech.com<mailto:Diana.Eldam@tetratech.com>>
Subject: RE: Pace Analytical National Level II Report & EDD for DR Horton - (COR) Keller Crossing Phase II L1777125

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Hi Chad,

This L1777125 report seems to show the same results and analysis dates as the original L1777125 report. Can you verify this is the revised one?

Thanks,

Manuela Pastrano | Environmental Scientist II
Mobile (504) 444-1724
Manuela.Pastrano@tetratech.com<mailto:Manuela.Pastrano@tetratech.com>

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<chad.upchurch@pacelabs.com<mailto:chad.upchurch@pacelabs.com>>
Sent: Thursday, October 10, 2024 6:03 PM
To: Pastrano, Manuela <manuela.pastrano@tetratech.com<mailto:manuela.pastrano@tetratech.com>>; Eldam, Diana <diana.eldam@tetratech.com<mailto:diana.eldam@tetratech.com>>
Subject: Pace Analytical National Level II Report & EDD for DR Horton - (COR) Keller Crossing Phase II L1777125
Importance: High

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Chad A Upchurch
Project Manager
--
chad.upchurch@pacelabs.com<mailto:chad.upchurch@pacelabs.com>

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Recipients configured to receive report file and electroni

--- Email body truncated due to large size. Full email body added as attachment. ---

**Time estimate:** oh **Time spent:** oh

**Members**

CU Chad Upchurch (responsible)

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# ANALYTICAL REPORT

September 17, 2024

## Tetra Tech EMI - Houston, TX

Samp e e er roup: L1776638

Samp es ece ed: 09/11/2024

Project umber:

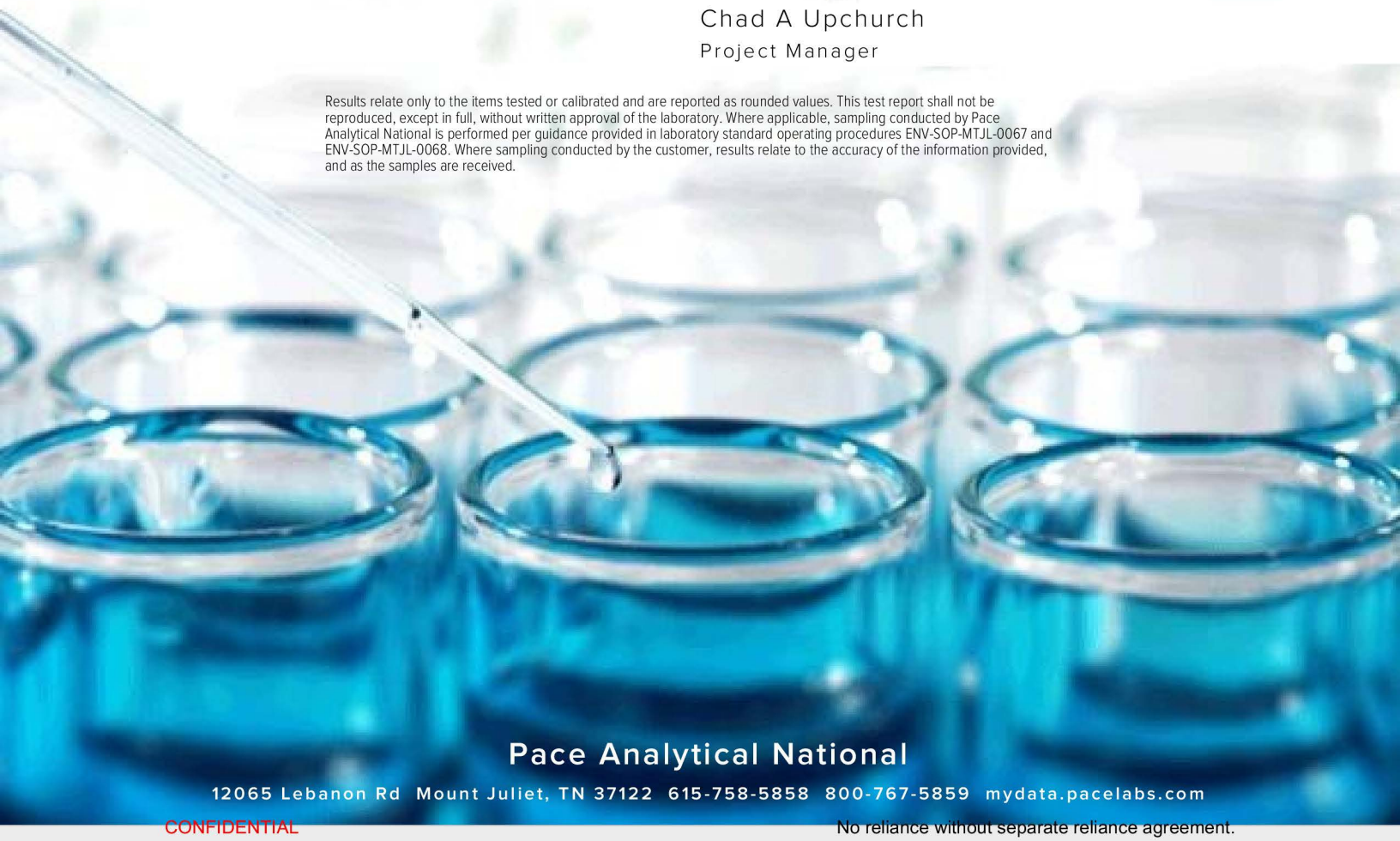
escr pt on: Horton - C e er Cross ng Phase II

eport To: ana E dam/Manue a Pastrano
1500 C t est ou e ard
Su te 1000
Houston, TX 77042

Ent re eport e e ed :

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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## A EA 3-C MP L1776638-01 So d

Collected by: Maxx Wlodarczyk
Collected date/time: 09/10/24 08:00
Received date/time: 09/11/24 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2361768 | 1 | 09/13/24 07:37 | 09/13/24 07:43 | MT | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2361636 | 1 | 09/13/24 09:22 | 09/13/24 13:40 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2361859 | 1 | 09/13/24 09:01 | 09/13/24 12:33 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2361477 | 27 | 09/10/24 08:00 | 09/12/24 20:31 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2361553 | 1.08 | 09/10/24 08:00 | 09/12/24 21:29 | ACG | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2361146 | 1 | 09/13/24 13:11 | 09/14/24 09:34 | KKS | Mt. Juliet, TN |
| Chlorinated Acid Herbicides (GC) by Method 8151 | WG2360814 | 1 | 09/13/24 04:03 | 09/13/24 21:57 | LJD | Mt. Juliet, TN |
| Chlorinated Acid Herbicides (GC) by Method 8151 | WG2360814 | 1 | 09/13/24 04:03 | 09/16/24 18:43 | JDJ | Mt. Juliet, TN |
| OP Pesticides by Method 8141 | WG2361107 | 1 | 09/12/24 22:18 | 09/13/24 19:35 | MEW | Mt. Juliet, TN |
| Pesticides (GC) by Method 8081 | WG2361741 | 1 | 09/13/24 07:28 | 09/13/24 15:01 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2361742 | 2 | 09/13/24 13:08 | 09/14/24 02:01 | DSH | Mt. Juliet, TN |

# CASE A ATI E

A samp e a uots ere rece ed at the correct temperature, n the proper conta ners, th the appropr ate preser at es, and th n method spec f ed ho d ng t mes, un ess ua f ed or notated th n the report here app cab e, a M L L and L L a ues reported for en ronmenta samp es ha e been corrected for the d ut on factor used n the ana s s A Method and atch ua t Contro are th n estab shed cr ter a e cept here addressed n th s case narrat e, a non-conformance form or proper ua f ed th n the samp e resu ts m d g ta s gnature be o , l aff rm to the best of m no edge, a prob ems/anoma es obser ed b the aborator as ha ng the potent a to affect the ua t of the data ha e been dent f ed b the aborator , and no nformat on or data ha e been no ng thhe d that ou d affect the ua t of the data

Chad A Upchurch
Project Manager

## Tota So ds b Method 2540 -2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 97.3 | | 1 | 09/13/2024 07:43 | WG2361768 |

## Mercur b Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0386 | _ | 0.0185 | 0.0411 | 1 | 09/13/2024 13:40 | WG2361636 |

## Meta s ICP b Method 6010

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 4.85 | | 0.533 | 2.06 | 1 | 09/13/2024 12:33 | WG2361859 |
| Barium | 107 | | 0.0876 | 0.514 | 1 | 09/13/2024 12:33 | WG2361859 |
| Cadmium | 0.731 | | 0.0484 | 0.514 | 1 | 09/13/2024 12:33 | WG2361859 |
| Chromium | 20.6 | | 0.137 | 1.03 | 1 | 09/13/2024 12:33 | WG2361859 |
| Lead | 9.89 | | 0.214 | 0.514 | 1 | 09/13/2024 12:33 | WG2361859 |
| Selenium | 1.80 | _ | 0.785 | 2.06 | 1 | 09/13/2024 12:33 | WG2361859 |
| Silver | 0.609 | __ | 0.131 | 1.03 | 1 | 09/13/2024 12:33 | WG2361859 |

## o at e rgan c Compounds C b Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.39 | __ | 0.944 | 2.85 | 27 | 09/12/2024 20:31 | WG2361477 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* | | *09/12/2024 20:31* | WG2361477 |

## o at e rgan c Compounds C/MS b Method 8260

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | _4 | 0.0415 | 0.0569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Acrylonitrile | U | | 0.00411 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Benzene | U | | 0.000531 | 0.00114 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Bromobenzene | U | | 0.00102 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Bromodichloromethane | U | | 0.000825 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Bromoform | U | | 0.00133 | 0.0285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Bromomethane | U | | 0.00224 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| n-Butylbenzene | U | | 0.00598 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| sec-Butylbenzene | U | | 0.00328 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| tert-Butylbenzene | U | | 0.00222 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Carbon tetrachloride | U | | 0.00102 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Chlorobenzene | U | | 0.000239 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Chlorodibromomethane | U | | 0.000697 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Chloroethane | U | | 0.00194 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Chloroform | U | | 0.00117 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Chloromethane | U | | 0.00495 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 2-Chlorotoluene | U | | 0.000984 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 4-Chlorotoluene | U | | 0.000512 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00444 | 0.0285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,2-Dibromoethane | U | | 0.000738 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Dibromomethane | U | | 0.000854 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,2-Dichlorobenzene | U | | 0.000484 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,3-Dichlorobenzene | U | | 0.000683 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,4-Dichlorobenzene | U | | 0.000797 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Dichlorodifluoromethane | U | | 0.00183 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,1-Dichloroethane | U | | 0.000559 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |

## o at e rgan c Compounds C/MS b Method 8260

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | U | | 0.000739 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,1-Dichloroethene | U | | 0.000689 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| cis-1,2-Dichloroethene | U | | 0.000836 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| trans-1,2-Dichloroethene | U | | 0.00118 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,2-Dichloropropane | U | | 0.00161 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,1-Dichloropropene | U | | 0.000921 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,3-Dichloropropane | U | | 0.000570 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| cis-1,3-Dichloropropene | U | | 0.000862 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| trans-1,3-Dichloropropene | U | | 0.00130 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 2,2-Dichloropropane | U | | 0.00157 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Di-isopropyl ether | U | | 0.000467 | 0.00114 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Ethylbenzene | U | | 0.000839 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Hexachloro-1,3-butadiene | U | | 0.00683 | 0.0285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Isopropylbenzene | U | | 0.000484 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| p-Isopropyltoluene | U | | 0.00290 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 2-Butanone (MEK) | U | | 0.0723 | 0.114 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Methylene Chloride | U | | 0.00756 | 0.0285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00259 | 0.0285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Methyl tert-butyl ether | U | | 0.000398 | 0.00114 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Naphthalene | U | | 0.00555 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| n-Propylbenzene | U | | 0.00109 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Styrene | U | | 0.000260 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00108 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000792 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000858 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Tetrachloroethene | U | | 0.00102 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Toluene | U | | 0.00148 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,2,3-Trichlorobenzene | U | | 0.00835 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,2,4-Trichlorobenzene | U | | 0.00501 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,1,1-Trichloroethane | U | | 0.00105 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,1,2-Trichloroethane | U | | 0.000680 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Trichloroethene | U | | 0.000665 | 0.00114 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Trichlorofluoromethane | U | | 0.000941 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,2,3-Trichloropropane | U | | 0.00184 | 0.0142 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,2,4-Trimethylbenzene | U | | 0.00180 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,2,3-Trimethylbenzene | U | | 0.00180 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| 1,3,5-Trimethylbenzene | U | | 0.00228 | 0.00569 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Vinyl chloride | U | | 0.00132 | 0.00285 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| Xylenes, Total | U | | 0.00100 | 0.00740 | 1.08 | 09/12/2024 21:29 | WG2361553 |
| *(S) Toluene-d8* | *94.7* | | | *75.0-131* | | *09/12/2024 21:29* | WG2361553 |
| *(S) 4-Bromofluorobenzene* | *115* | | | *67.0-138* | | *09/12/2024 21:29* | WG2361553 |
| *(S) 1,2-Dichloroethane-d4* | *91.4* | | | *70.0-130* | | *09/12/2024 21:29* | WG2361553 |

## Sem - o at e rgan c Compounds C b Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 8.75 | | 0.754 | 4.11 | 1 | 09/14/2024 09:34 | WG2361146 |
| *(S) o-Terphenyl* | *60.4* | | | *18.0-148* | | *09/14/2024 09:34* | WG2361146 |

## Ch or nated Ac d Herb c des C b Method 8151

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-D | U | 4 | 0.00722 | 0.0720 | 1 | 09/13/2024 21:57 | WG2360814 |
| Dalapon | U | | 0.0116 | 0.0720 | 1 | 09/16/2024 18:43 | WG2360814 |
| 2,4-DB | U | | 0.0305 | 0.0720 | 1 | 09/13/2024 21:57 | WG2360814 |
| Dicamba | U | | 0.0161 | 0.0720 | 1 | 09/13/2024 21:57 | WG2360814 |
| Dichloroprop | U | | 0.0252 | 0.0720 | 1 | 09/13/2024 21:57 | WG2360814 |
| Dinoseb | U | | 0.00717 | 0.0720 | 1 | 09/13/2024 21:57 | WG2360814 |
| MCPA | U | | 0.455 | 6.68 | 1 | 09/13/2024 21:57 | WG2360814 |
| MCPP | U | | 0.377 | 6.68 | 1 | 09/13/2024 21:57 | WG2360814 |
| 2,4,5-T | U | | 0.00876 | 0.0720 | 1 | 09/13/2024 21:57 | WG2360814 |
| 2,4,5-TP (Silvex) | U | | 0.0110 | 0.0720 | 1 | 09/13/2024 21:57 | WG2360814 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *77.7* | | | *22.0-132* | | *09/13/2024 21:57* | WG2360814 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *77.1* | | | *22.0-132* | | *09/16/2024 18:43* | WG2360814 |

## P Pest c des b Method 8141

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | U | | 0.0327 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Bolstar (Sulprofos) | U | 4 | 0.0153 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Chlorpyrifos | U | 4 | 0.0161 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Coumaphos | U | 4 | 0.0250 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Demeton,-O and -S | U | 4 | 0.00600 | 0.0720 | 1 | 09/13/2024 19:35 | WG2361107 |
| Diazinon | U | | 0.0231 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Dichlorvos | U | | 0.0308 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Dimethoate | U | | 0.0343 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Disulfoton | U | 4 | 0.0261 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| EPN | U | 4 | 0.0284 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Ethoprop | U | 4 | 0.0121 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Ethyl Parathion | U | 4 | 0.0169 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Fensulfothion | U | 4 | 0.0363 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Fenthion | U | 4 | 0.0137 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Malathion | U | 4 | 0.0184 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Merphos | U | | 0.0239 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Methyl parathion | U | 4 | 0.0209 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Mevinphos | U | | 0.0236 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Naled | U | | 0.0493 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Phorate | U | 4 | 0.0216 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Ronnel | U | 4 | 0.0153 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Stirophos | U | 4 | 0.0183 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Sulfotep | U | 4 | 0.0101 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| TEPP | U | | 0.161 | 1.03 | 1 | 09/13/2024 19:35 | WG2361107 |
| Tokuthion (Prothothiofos) | U | 4 | 0.0154 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| Trichloronate | U | 4 | 0.0207 | 0.103 | 1 | 09/13/2024 19:35 | WG2361107 |
| *(S) Triphenyl Phosphate* | *119* | | | *36.0-121* | | *09/13/2024 19:35* | WG2361107 |

## Pest c des C b Method 8081

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Aldrin | U | | 0.00387 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Alpha BHC | U | | 0.00378 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Beta BHC | U | | 0.00390 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Delta BHC | U | | 0.00356 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Gamma BHC | U | | 0.00354 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| 4,4-DDD | U | | 0.00380 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| 4,4-DDE | U | | 0.00376 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |

## Pest c des C b Method 8081

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 4,4-DDT | U | | 0.00645 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Dieldrin | U | | 0.00354 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Endosulfan I | U | | 0.00373 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Endosulfan II | U | | 0.00344 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Endosulfan sulfate | U | | 0.00374 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Endrin | U | | 0.00360 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Endrin aldehyde | U | | 0.00349 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Endrin ketone | U | | 0.00731 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Heptachlor | U | | 0.00440 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Heptachlor epoxide | U | | 0.00349 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Hexachlorobenzene | U | | 0.00356 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Methoxychlor | U | | 0.00498 | 0.0206 | 1 | 09/13/2024 15:01 | WG2361741 |
| Chlordane | U | | 0.106 | 0.308 | 1 | 09/13/2024 15:01 | WG2361741 |
| Toxaphene | U | | 0.127 | 0.411 | 1 | 09/13/2024 15:01 | WG2361741 |
| *(S) Decachlorobiphenyl* | *78.3* | | | *10.0-135* | | *09/13/2024 15:01* | WG2361741 |
| *(S) Tetrachloro-m-xylene* | *76.9* | | | *10.0-139* | | *09/13/2024 15:01* | WG2361741 |

## Sem o at e rgan c Compounds C/MS b Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0111 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Acenaphthylene | U | | 0.00964 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Anthracene | U | | 0.0122 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Benzidine | U | | 0.129 | 3.43 | 2 | 09/14/2024 02:01 | WG2361742 |
| Benzo(a)anthracene | U | | 0.0120 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Benzo(b)fluoranthene | U | | 0.0127 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Benzo(k)fluoranthene | U | | 0.0121 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Benzo(g,h,i)perylene | U | | 0.0125 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Benzo(a)pyrene | U | | 0.0127 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Bis(2-chlorethoxy)methane | U | | 0.0206 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Bis(2-chloroethyl)ether | U | | 0.0226 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0296 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 4-Bromophenyl-phenylether | U | | 0.0241 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2-Chloronaphthalene | U | | 0.0120 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 4-Chlorophenyl-phenylether | U | | 0.0239 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Chrysene | U | | 0.0136 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Dibenz(a,h)anthracene | U | | 0.0190 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 3,3-Dichlorobenzidine | U | | 0.0253 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2,4-Dinitrotoluene | U | | 0.0196 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2,6-Dinitrotoluene | U | | 0.0224 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Fluoranthene | U | | 0.0123 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Fluorene | U | | 0.0111 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Hexachlorobenzene | U | | 0.0243 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Hexachloro-1,3-butadiene | U | | 0.0230 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Hexachlorocyclopentadiene | U | | 0.0360 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Hexachloroethane | U | | 0.0269 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0193 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Isophorone | U | | 0.0210 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Naphthalene | U | | 0.0172 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Nitrobenzene | U | | 0.0239 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| n-Nitrosodimethylamine | U | | 0.102 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| n-Nitrosodiphenylamine | U | | 0.0518 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| n-Nitrosodi-n-propylamine | U | | 0.0228 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Phenanthrene | U | | 0.0136 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Benzylbutyl phthalate | U | | 0.0214 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0868 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |

## Sem o at e rgan c Compounds C/MS b Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Di-n-butyl phthalate | U | | 0.0234 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Diethyl phthalate | U | | 0.0226 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Dimethyl phthalate | U | | 0.145 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Di-n-octyl phthalate | U | | 0.0463 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Pyrene | U | | 0.0134 | 0.0685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 1,2,4-Trichlorobenzene | U | | 0.0214 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 4-Chloro-3-methylphenol | U | | 0.0222 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2-Chlorophenol | U | | 0.0226 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2,4-Dichlorophenol | U | | 0.0199 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2,4-Dimethylphenol | U | | 0.0179 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 4,6-Dinitro-2-methylphenol | U | | 0.155 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2,4-Dinitrophenol | U | | 0.160 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2-Nitrophenol | U | | 0.0245 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 4-Nitrophenol | U | | 0.0214 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Pentachlorophenol | U | | 0.0184 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| Phenol | U | | 0.0276 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| 2,4,6-Trichlorophenol | U | | 0.0220 | 0.685 | 2 | 09/14/2024 02:01 | WG2361742 |
| *(S) 2-Fluorophenol* | *66.0* | | | *12.0-120* | | *09/14/2024 02:01* | WG2361742 |
| *(S) Phenol-d5* | *61.0* | | | *10.0-120* | | *09/14/2024 02:01* | WG2361742 |
| *(S) Nitrobenzene-d5* | *57.4* | | | *10.0-122* | | *09/14/2024 02:01* | WG2361742 |
| *(S) 2-Fluorobiphenyl* | *63.1* | | | *15.0-120* | | *09/14/2024 02:01* | WG2361742 |
| *(S) 2,4,6-Tribromophenol* | *73.7* | | | *10.0-127* | | *09/14/2024 02:01* | WG2361742 |
| *(S) p-Terphenyl-d14* | *71.6* | | | *10.0-120* | | *09/14/2024 02:01* | WG2361742 |

**Sample Narrative:**

L1776638-01 WG2361742: Dilution due to matrix impact during extraction procedure

## Method an M

M 4119663-1 09/13/24 07:43

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1773224-01 r g na Samp e S up cate UP

S L1773224-01 09/13/24 07:43 UP 4119663-3 09/13/24 07:43

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 86.8 | 87.8 | 1 | 1.15 | | 10 |

## Laborator Contro Samp e LCS

LCS 4119663-2 09/13/24 07:43

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method an M

M 4119540-1 09/13/24 13:35

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Mercury | U | | 0.0180 | 0.0400 |

## Laborator Contro Samp e LCS

LCS 4119540-2 09/13/24 13:38

| | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| Analyte | mg/kg | mg/kg | % | % | |
| Mercury | 0.500 | 0.568 | 114 | 80.0-120 | |

## L1776638-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776638-01 09/13/24 13:40 MS 4119540-4 09/13/24 13:53 MS 4119540-5 09/13/24 13:56

| | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Mercury | 0.514 | 0.0386 | 0.673 | 0.609 | 123 | 111 | 1 | 75.0-125 | | | 10.1 | 20 |

## Method an M

M 4119571-1 09/13/24 12:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Lead | U | | 0.208 | 0.500 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | 0.499 | _ | 0.127 | 1.00 |

## Laborator Contro Samp e LCS

LCS 4119571-2 09/13/24 12:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 88.7 | 88.7 | 80.0-120 | |
| Barium | 100 | 91.2 | 91.2 | 80.0-120 | |
| Cadmium | 100 | 89.7 | 89.7 | 80.0-120 | |
| Chromium | 100 | 89.0 | 89.0 | 80.0-120 | |
| Lead | 100 | 89.3 | 89.3 | 80.0-120 | |
| Selenium | 100 | 89.9 | 89.9 | 80.0-120 | |
| Silver | 20.0 | 18.3 | 91.6 | 80.0-120 | |

## L1776654-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776654-01 09/13/24 12:44 MS 4119571-5 09/13/24 12:49 MS 4119571-6 09/13/24 12:50

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 102 | 4.71 | 80.0 | 92.9 | 73.9 | 86.6 | 1 | 75.0-125 | 6 | | 15.0 | 20 |
| Barium | 102 | 132 | 201 | 234 | 67.6 | 99.9 | 1 | 75.0-125 | 6 | | 15.1 | 20 |
| Cadmium | 102 | 0.307 | 77.9 | 89.8 | 76.2 | 87.9 | 1 | 75.0-125 | | | 14.2 | 20 |
| Chromium | 102 | 20.3 | 95.2 | 110 | 73.6 | 88.5 | 1 | 75.0-125 | 6 | | 14.7 | 20 |
| Lead | 102 | 10.9 | 89.2 | 104 | 76.9 | 91.1 | 1 | 75.0-125 | | | 15.0 | 20 |
| Selenium | 102 | 2.03 | 76.5 | 88.4 | 73.1 | 84.8 | 1 | 75.0-125 | 6 | | 14.5 | 20 |
| Silver | 20.4 | 0.620 | 16.2 | 18.7 | 76.6 | 88.9 | 1 | 75.0-125 | | | 14.3 | 20 |

## Method an M

M 4119968-3 09/12/24 16:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.69 | _ | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *105* | | | *77.0-120* |

## Laborator Contro Samp e LCS

LCS 4119968-2 09/12/24 15:08

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.23 | 84.6 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *106* | *77.0-120* | |

## Method an M

M 4119579-2 09/12/24 19:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method an M

M 4119579-2 09/12/24 19:36

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *100* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *93.4* | | | *70.0-130* |

## Laborator Contro Samp e LCS

LCS 4119579-1 09/12/24 17:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acetone | 0.625 | 1.29 | 206 | 10.0-160 | 4 |
| Acrylonitrile | 0.625 | 0.857 | 137 | 45.0-153 | |
| Benzene | 0.125 | 0.0992 | 79.4 | 70.0-123 | |
| Bromobenzene | 0.125 | 0.110 | 88.0 | 73.0-121 | |
| Bromodichloromethane | 0.125 | 0.104 | 83.2 | 73.0-121 | |

## Laborator Contro Samp e LCS

LCS 4119579-1 09/12/24 17:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.116 | 92.8 | 64.0-132 | |
| Bromomethane | 0.125 | 0.151 | 121 | 56.0-147 | |
| n-Butylbenzene | 0.125 | 0.115 | 92.0 | 68.0-135 | |
| sec-Butylbenzene | 0.125 | 0.112 | 89.6 | 74.0-130 | |
| tert-Butylbenzene | 0.125 | 0.110 | 88.0 | 75.0-127 | |
| Carbon tetrachloride | 0.125 | 0.113 | 90.4 | 66.0-128 | |
| Chlorobenzene | 0.125 | 0.117 | 93.6 | 76.0-128 | |
| Chlorodibromomethane | 0.125 | 0.116 | 92.8 | 74.0-127 | |
| Chloroethane | 0.125 | 0.159 | 127 | 61.0-134 | |
| Chloroform | 0.125 | 0.112 | 89.6 | 72.0-123 | |
| Chloromethane | 0.125 | 0.136 | 109 | 51.0-138 | |
| 2-Chlorotoluene | 0.125 | 0.109 | 87.2 | 75.0-124 | |
| 4-Chlorotoluene | 0.125 | 0.105 | 84.0 | 75.0-124 | |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.108 | 86.4 | 59.0-130 | |
| 1,2-Dibromoethane | 0.125 | 0.115 | 92.0 | 74.0-128 | |
| Dibromomethane | 0.125 | 0.103 | 82.4 | 75.0-122 | |
| 1,2-Dichlorobenzene | 0.125 | 0.113 | 90.4 | 76.0-124 | |
| 1,3-Dichlorobenzene | 0.125 | 0.112 | 89.6 | 76.0-125 | |
| 1,4-Dichlorobenzene | 0.125 | 0.110 | 88.0 | 77.0-121 | |
| Dichlorodifluoromethane | 0.125 | 0.151 | 121 | 43.0-156 | |
| 1,1-Dichloroethane | 0.125 | 0.137 | 110 | 70.0-127 | |
| 1,2-Dichloroethane | 0.125 | 0.103 | 82.4 | 65.0-131 | |
| 1,1-Dichloroethene | 0.125 | 0.113 | 90.4 | 65.0-131 | |
| cis-1,2-Dichloroethene | 0.125 | 0.117 | 93.6 | 73.0-125 | |
| trans-1,2-Dichloroethene | 0.125 | 0.123 | 98.4 | 71.0-125 | |
| 1,2-Dichloropropane | 0.125 | 0.106 | 84.8 | 74.0-125 | |
| 1,1-Dichloropropene | 0.125 | 0.104 | 83.2 | 73.0-125 | |
| 1,3-Dichloropropane | 0.125 | 0.113 | 90.4 | 80.0-125 | |
| cis-1,3-Dichloropropene | 0.125 | 0.122 | 97.6 | 76.0-127 | |
| trans-1,3-Dichloropropene | 0.125 | 0.114 | 91.2 | 73.0-127 | |
| 2,2-Dichloropropane | 0.125 | 0.113 | 90.4 | 59.0-135 | |
| Di-isopropyl ether | 0.125 | 0.166 | 133 | 60.0-136 | |
| Ethylbenzene | 0.125 | 0.116 | 92.8 | 74.0-126 | |
| Hexachloro-1,3-butadiene | 0.125 | 0.122 | 97.6 | 57.0-150 | |
| Isopropylbenzene | 0.125 | 0.126 | 101 | 72.0-127 | |
| p-Isopropyltoluene | 0.125 | 0.118 | 94.4 | 72.0-133 | |
| 2-Butanone (MEK) | 0.625 | 0.747 | 120 | 30.0-160 | |
| Methylene Chloride | 0.125 | 0.124 | 99.2 | 68.0-123 | |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.620 | 99.2 | 56.0-143 | |
| Methyl tert-butyl ether | 0.125 | 0.131 | 105 | 66.0-132 | |

## Laborator Contro Samp e LCS

LCS 4119579-1 09/12/24 17:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.0822 | 65.8 | 59.0-130 | |
| n-Propylbenzene | 0.125 | 0.106 | 84.8 | 74.0-126 | |
| Styrene | 0.125 | 0.105 | 84.0 | 72.0-127 | |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.116 | 92.8 | 74.0-129 | |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.0996 | 79.7 | 68.0-128 | |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.0780 | 62.4 | 61.0-139 | |
| Tetrachloroethene | 0.125 | 0.120 | 96.0 | 70.0-136 | |
| Toluene | 0.125 | 0.108 | 86.4 | 75.0-121 | |
| 1,2,3-Trichlorobenzene | 0.125 | 0.108 | 86.4 | 59.0-139 | |
| 1,2,4-Trichlorobenzene | 0.125 | 0.0945 | 75.6 | 62.0-137 | |
| 1,1,1-Trichloroethane | 0.125 | 0.108 | 86.4 | 69.0-126 | |
| 1,1,2-Trichloroethane | 0.125 | 0.111 | 88.8 | 78.0-123 | |
| Trichloroethene | 0.125 | 0.120 | 96.0 | 76.0-126 | |
| Trichlorofluoromethane | 0.125 | 0.153 | 122 | 61.0-142 | |
| 1,2,3-Trichloropropane | 0.125 | 0.105 | 84.0 | 67.0-129 | |
| 1,2,4-Trimethylbenzene | 0.125 | 0.110 | 88.0 | 70.0-126 | |
| 1,2,3-Trimethylbenzene | 0.125 | 0.108 | 86.4 | 74.0-124 | |
| 1,3,5-Trimethylbenzene | 0.125 | 0.109 | 87.2 | 73.0-127 | |
| Vinyl chloride | 0.125 | 0.147 | 118 | 63.0-134 | |
| Xylenes, Total | 0.375 | 0.345 | 92.0 | 72.0-127 | |
| *(S) Toluene-d8* | | | *97.8* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *100* | *67.0-138* | |
| *(S) 1,2-Dichloroethane-d4* | | | *92.2* | *70.0-130* | |

## Method an M

M 4119812-2 09/14/24 07:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| *(S) o-Terphenyl* | *79.4* | | | *18.0-148* |

## Laborator Contro Samp e LCS

LCS 4119812-1 09/13/24 19:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 50.0 | 28.2 | 56.4 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *64.4* | *18.0-148* | |

## L1775792-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775792-01 09/14/24 12:53 MS 4119854-1 09/14/24 13:06 MS 4119854-2 09/14/24 13:19

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 54.5 | 3.17 | 36.2 | 35.9 | 60.6 | 60.3 | 2 | 50.0-150 | | | 0.930 | 20 |
| *(S) o-Terphenyl* | | | | | *59.4* | *61.9* | | *18.0-148* | | | | |

## Method an M

M 4119914-1 09/13/24 16:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| 2,4-D | U | | 0.00702 | 0.0700 |
| Dalapon | U | | 0.0113 | 0.0700 |
| 2,4-DB | U | | 0.0297 | 0.0700 |
| Dicamba | U | | 0.0157 | 0.0700 |
| Dichloroprop | U | | 0.0245 | 0.0700 |
| Dinoseb | U | | 0.00697 | 0.0700 |
| MCPA | U | | 0.443 | 6.50 |
| MCPP | U | | 0.367 | 6.50 |
| 2,4,5-T | U | | 0.00852 | 0.0700 |
| 2,4,5-TP (Silvex) | U | | 0.0107 | 0.0700 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *80.8* | | | *22.0-132* |

## Laborator Contro Samp e LCS

LCS 4119914-2 09/13/24 17:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 2,4-D | 0.0833 | 0.114 | 137 | 40.0-120 | 4 |
| Dalapon | 0.0833 | 0.0770 | 92.4 | 15.0-120 | |
| 2,4-DB | 0.0833 | 0.0858 | 103 | 25.0-143 | |
| Dicamba | 0.0833 | 0.0747 | 89.7 | 43.0-120 | |
| Dichloroprop | 0.0833 | 0.0745 | 89.4 | 32.0-129 | |
| Dinoseb | 0.0833 | 0.0224 | 26.9 | 10.0-120 | |
| MCPA | 8.33 | 8.23 | 98.8 | 31.0-121 | |
| MCPP | 8.33 | 7.22 | 86.7 | 28.0-133 | |
| 2,4,5-T | 0.0833 | 0.0850 | 102 | 41.0-120 | |
| 2,4,5-TP (Silvex) | 0.0833 | 0.0689 | 82.7 | 42.0-120 | |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | | | *83.8* | *22.0-132* | |

## L1776587-11 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776587-11 09/13/24 21:00 MS 4119914-3 09/13/24 21:12 MS 4119914-4 09/13/24 21:23

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,4-D | 0.0848 | U | 0.105 | 0.106 | 124 | 125 | 1 | 10.0-160 | | | 0.966 | 24 |
| Dalapon | 0.0848 | U | 0.0583 | 0.0528 | 68.7 | 62.1 | 1 | 10.0-121 | | | 9.75 | 27 |
| 2,4-DB | 0.0848 | U | 0.0516 | 0.0557 | 60.8 | 65.4 | 1 | 10.0-160 | | | 7.62 | 22 |

## L1776587-11 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776587-11 09/13/24 21:00 MS 4119914-3 09/13/24 21:12 MS 4119914-4 09/13/24 21:23

| Analyte | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Dicamba | 0.0848 | U | 0.0579 | 0.0553 | 68.2 | 64.9 | 1 | 10.0-154 | | | 4.52 | 21 |
| Dichloroprop | 0.0848 | U | 0.0642 | 0.0654 | 75.7 | 76.8 | 1 | 10.0-158 | | | 1.89 | 20 |
| Dinoseb | 0.0848 | U | 0.0447 | 0.0509 | 52.7 | 59.8 | 1 | 10.0-120 | | | 13.0 | 40 |
| MCPA | 8.48 | U | 15.3 | 14.5 | 181 | 170 | 1 | 10.0-160 | 5 | 5 | 5.48 | 40 |
| MCPP | 8.48 | U | 10.0 | 8.11 | 118 | 95.2 | 1 | 10.0-160 | | | 21.4 | 40 |
| 2,4,5-T | 0.0848 | U | 0.0732 | 0.0744 | 86.3 | 87.4 | 1 | 10.0-157 | | | 1.66 | 20 |
| 2,4,5-TP (Silvex) | 0.0848 | U | 0.0601 | 0.0628 | 70.8 | 73.7 | 1 | 10.0-156 | | | 4.33 | 20 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | | | | | *74.1* | *74.9* | | *22.0-132* | | | | |

## Method an M

M 4119791-1 09/13/24 15:42

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Azinphos-Methyl | U | | 0.0318 | 0.100 |
| Bolstar (Sulprofos) | U | | 0.0149 | 0.100 |
| Chlorpyrifos | U | | 0.0157 | 0.100 |
| Coumaphos | U | | 0.0243 | 0.100 |
| Demeton,-O and -S | U | | 0.00584 | 0.0700 |
| Diazinon | U | | 0.0225 | 0.100 |
| Dichlorvos | U | | 0.0300 | 0.100 |
| Dimethoate | U | | 0.0334 | 0.100 |
| Disulfoton | U | | 0.0254 | 0.100 |
| EPN | U | | 0.0276 | 0.100 |
| Ethoprop | U | | 0.0118 | 0.100 |
| Ethyl Parathion | U | | 0.0164 | 0.100 |
| Fensulfothion | U | | 0.0353 | 0.100 |
| Fenthion | U | | 0.0133 | 0.100 |
| Malathion | U | | 0.0179 | 0.100 |
| Merphos | U | | 0.0232 | 0.100 |
| Methyl parathion | U | | 0.0203 | 0.100 |
| Mevinphos | U | | 0.0230 | 0.100 |
| Naled | U | | 0.0480 | 0.100 |
| Phorate | U | | 0.0210 | 0.100 |
| Ronnel | U | | 0.0149 | 0.100 |
| Stirophos | U | | 0.0178 | 0.100 |
| Sulfotep | U | | 0.00986 | 0.100 |
| TEPP | U | | 0.157 | 1.00 |
| Tokuthion (Prothothiofos) | U | | 0.0150 | 0.100 |
| Trichloronate | U | | 0.0201 | 0.100 |
| *(S) Triphenyl Phosphate* | *120* | | | *36.0-121* |

## Laborator Contro Samp e LCS

LCS 4119791-2 09/13/24 16:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Azinphos-Methyl | 0.333 | 0.406 | 122 | 58.0-125 | |
| Bolstar (Sulprofos) | 0.333 | 0.434 | 130 | 64.0-120 | 4 |
| Chlorpyrifos | 0.333 | 0.459 | 138 | 62.0-120 | 4 |
| Coumaphos | 0.333 | 0.440 | 132 | 60.0-120 | 4 |
| Demeton,-O and -S | 0.167 | 0.247 | 148 | 59.0-120 | 4 |
| Diazinon | 0.333 | 0.398 | 120 | 49.0-120 | |

## Laborator Contro Samp e LCS

LCS 4119791-2 09/13/24 16:15

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Dichlorvos | 0.333 | 0.313 | 94.0 | 37.0-120 | |
| Dimethoate | 0.333 | 0.416 | 125 | 46.0-127 | |
| Disulfoton | 0.333 | 0.433 | 130 | 60.0-121 | 4 |
| EPN | 0.333 | 0.435 | 131 | 60.0-121 | 4 |
| Ethoprop | 0.333 | 0.455 | 137 | 59.0-120 | 4 |
| Ethyl Parathion | 0.333 | 0.472 | 142 | 62.0-120 | 4 |
| Fensulfothion | 0.333 | 0.417 | 125 | 58.0-123 | 4 |
| Fenthion | 0.333 | 0.457 | 137 | 61.0-121 | 4 |
| Malathion | 0.333 | 0.468 | 141 | 59.0-120 | 4 |
| Merphos | 0.333 | 0.387 | 116 | 59.0-120 | |
| Methyl parathion | 0.333 | 0.428 | 129 | 63.0-120 | 4 |
| Mevinphos | 0.333 | 0.356 | 107 | 50.0-120 | |
| Naled | 0.333 | 0.243 | 73.0 | 10.0-125 | |
| Phorate | 0.333 | 0.425 | 128 | 60.0-120 | 4 |
| Ronnel | 0.333 | 0.419 | 126 | 62.0-120 | 4 |
| Stirophos | 0.333 | 0.427 | 128 | 62.0-120 | 4 |
| Sulfotep | 0.333 | 0.516 | 155 | 62.0-122 | 4 |
| TEPP | 3.33 | 1.03 | 30.9 | 10.0-135 | |
| Tokuthion (Prothothiofos) | 0.333 | 0.447 | 134 | 63.0-120 | 4 |
| Trichloronate | 0.333 | 0.464 | 139 | 62.0-120 | 4 |
| *(S) Triphenyl Phosphate* | | | *128* | *36.0-121* | 1 |

**Sample Narrative:**

LCS: Reporting non detect results only

## L1776587-11 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776587-11 09/13/24 16:49 MS 4119791-3 09/13/24 17:22 MS 4119791-4 09/13/24 17:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | 0.340 | U | 0.375 | 0.415 | 110 | 122 | 1 | 10.0-160 | | | 10.1 | 22 |
| Bolstar (Sulprofos) | 0.340 | U | 0.393 | 0.438 | 115 | 129 | 1 | 10.0-151 | | | 10.8 | 20 |
| Chlorpyrifos | 0.340 | U | 0.411 | 0.452 | 121 | 133 | 1 | 12.0-149 | | | 9.48 | 20 |
| Coumaphos | 0.340 | U | 0.400 | 0.435 | 117 | 128 | 1 | 10.0-160 | | | 8.57 | 22 |
| Demeton,-O and -S | 0.171 | U | 0.220 | 0.241 | 129 | 142 | 1 | 10.0-160 | | | 9.31 | 23 |
| Diazinon | 0.340 | U | 0.398 | 0.440 | 117 | 130 | 1 | 11.0-157 | | | 10.0 | 20 |
| Dichlorvos | 0.340 | U | 0.401 | 0.464 | 118 | 137 | 1 | 10.0-160 | | | 14.7 | 24 |
| Dimethoate | 0.340 | U | 0.394 | 0.436 | 116 | 129 | 1 | 10.0-150 | | | 10.3 | 27 |
| Disulfoton | 0.340 | U | 0.377 | 0.431 | 111 | 127 | 1 | 12.0-155 | | | 13.4 | 20 |

## L1776587-11 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776587-11 09/13/24 16:49 MS 4119791-3 09/13/24 17:22 MS 4119791-4 09/13/24 17:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPN | 0.340 | U | 0.410 | 0.448 | 120 | 132 | 1 | 10.0-159 | | | 8.82 | 20 |
| Ethoprop | 0.340 | U | 0.409 | 0.454 | 120 | 134 | 1 | 11.0-156 | | | 10.4 | 20 |
| Ethyl Parathion | 0.340 | U | 0.449 | 0.492 | 132 | 145 | 1 | 10.0-147 | | | 9.13 | 20 |
| Fensulfothion | 0.340 | U | 0.409 | 0.448 | 120 | 132 | 1 | 10.0-157 | | | 9.07 | 27 |
| Fenthion | 0.340 | U | 0.409 | 0.452 | 120 | 133 | 1 | 13.0-155 | | | 9.98 | 20 |
| Malathion | 0.340 | U | 0.430 | 0.473 | 126 | 139 | 1 | 13.0-137 | | 5 | 9.50 | 21 |
| Merphos | 0.340 | U | 0.380 | 0.414 | 112 | 122 | 1 | 10.0-147 | | | 8.49 | 26 |
| Methyl parathion | 0.340 | U | 0.411 | 0.456 | 121 | 134 | 1 | 10.0-150 | | | 10.4 | 21 |
| Mevinphos | 0.340 | U | 0.328 | 0.378 | 96.4 | 111 | 1 | 10.0-158 | | | 14.2 | 24 |
| Naled | 0.340 | U | 0.0677 | 0.0534 | 19.9 | 15.7 | 1 | 10.0-137 | - | - | 23.6 | 40 |
| Phorate | 0.340 | U | 0.375 | 0.432 | 110 | 127 | 1 | 13.0-154 | | | 14.2 | 20 |
| Ronnel | 0.340 | U | 0.381 | 0.422 | 112 | 124 | 1 | 14.0-149 | | | 10.2 | 20 |
| Stirophos | 0.340 | U | 0.381 | 0.417 | 112 | 123 | 1 | 10.0-150 | | | 8.96 | 20 |
| Sulfotep | 0.340 | U | 0.458 | 0.499 | 135 | 147 | 1 | 10.0-160 | | | 8.55 | 20 |
| TEPP | 3.40 | U | 0.702 | 0.408 | 20.6 | 12.0 | 1 | 10.0-142 | - | 3 | 53.0 | 28 |
| Tokuthion (Prothothiofos) | 0.340 | U | 0.407 | 0.457 | 120 | 135 | 1 | 12.0-153 | | | 11.6 | 20 |
| Trichloronate | 0.340 | U | 0.422 | 0.457 | 124 | 135 | 1 | 12.0-152 | | | 7.91 | 20 |
| *(S) Triphenyl Phosphate* | | | | | *114* | *124* | | *36.0-121* | | 1 | | |

## Method an M

M 4119775-1 09/13/24 13:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Aldrin | U | | 0.00376 | 0.0200 |
| Alpha BHC | U | | 0.00368 | 0.0200 |
| Beta BHC | U | | 0.00379 | 0.0200 |
| Delta BHC | U | | 0.00346 | 0.0200 |
| Gamma BHC | U | | 0.00344 | 0.0200 |
| 4,4-DDD | U | | 0.00370 | 0.0200 |
| 4,4-DDE | U | | 0.00366 | 0.0200 |
| 4,4-DDT | U | | 0.00627 | 0.0200 |
| Dieldrin | U | | 0.00344 | 0.0200 |
| Endosulfan I | U | | 0.00363 | 0.0200 |
| Endosulfan II | U | | 0.00335 | 0.0200 |
| Endosulfan sulfate | U | | 0.00364 | 0.0200 |
| Endrin | U | | 0.00350 | 0.0200 |
| Endrin aldehyde | U | | 0.00339 | 0.0200 |
| Endrin ketone | U | | 0.00711 | 0.0200 |
| Heptachlor | U | | 0.00428 | 0.0200 |
| Heptachlor epoxide | U | | 0.00339 | 0.0200 |
| Hexachlorobenzene | U | | 0.00346 | 0.0200 |
| Methoxychlor | U | | 0.00484 | 0.0200 |
| Chlordane | U | | 0.103 | 0.300 |
| Toxaphene | U | | 0.124 | 0.400 |
| *(S) Decachlorobiphenyl* | *76.6* | | | *10.0-135* |
| *(S) Tetrachloro-m-xylene* | *81.8* | | | *10.0-139* |

## Laborator Contro Samp e LCS

LCS 4119775-2 09/13/24 14:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Aldrin | 0.0666 | 0.0589 | 88.4 | 34.0-136 | |
| Alpha BHC | 0.0666 | 0.0585 | 87.8 | 34.0-139 | |
| Beta BHC | 0.0666 | 0.0554 | 83.2 | 34.0-133 | |
| Delta BHC | 0.0666 | 0.0556 | 83.5 | 34.0-135 | |
| Gamma BHC | 0.0666 | 0.0587 | 88.1 | 34.0-136 | |
| 4,4-DDD | 0.0666 | 0.0591 | 88.7 | 33.0-141 | |
| 4,4-DDE | 0.0666 | 0.0580 | 87.1 | 34.0-134 | |
| 4,4-DDT | 0.0666 | 0.0588 | 88.3 | 30.0-143 | |
| Dieldrin | 0.0666 | 0.0589 | 88.4 | 35.0-137 | |
| Endosulfan I | 0.0666 | 0.0570 | 85.6 | 34.0-134 | |

## Laborator Contro Samp e LCS

LCS 4119775-2 09/13/24 14:02

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Endosulfan II | 0.0666 | 0.0583 | 87.5 | 35.0-132 | |
| Endosulfan sulfate | 0.0666 | 0.0564 | 84.7 | 35.0-132 | |
| Endrin | 0.0666 | 0.0562 | 84.4 | 34.0-137 | |
| Endrin aldehyde | 0.0666 | 0.0541 | 81.2 | 23.0-121 | |
| Endrin ketone | 0.0666 | 0.0592 | 88.9 | 35.0-144 | |
| Heptachlor | 0.0666 | 0.0585 | 87.8 | 36.0-141 | |
| Heptachlor epoxide | 0.0666 | 0.0579 | 86.9 | 36.0-134 | |
| Hexachlorobenzene | 0.0666 | 0.0567 | 85.1 | 33.0-129 | |
| Methoxychlor | 0.0666 | 0.0561 | 84.2 | 28.0-150 | |
| *(S) Decachlorobiphenyl* | | | *84.2* | *10.0-135* | |
| *(S) Tetrachloro-m-xylene* | | | *93.2* | *10.0-139* | |

## L1775077-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775077-01 09/13/24 14:12 MS 4119775-3 09/13/24 14:22 MS 4119775-4 09/13/24 14:32

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aldrin | 0.0659 | U | 0.0583 | 0.0474 | 88.5 | 72.6 | 1 | 20.0-135 | | | 20.6 | 37 |
| Alpha BHC | 0.0659 | U | 0.0571 | 0.0462 | 86.6 | 70.8 | 1 | 27.0-140 | | | 21.1 | 35 |
| Beta BHC | 0.0659 | U | 0.0542 | 0.0443 | 82.2 | 67.8 | 1 | 23.0-141 | | | 20.1 | 37 |
| Delta BHC | 0.0659 | U | 0.0542 | 0.0440 | 82.2 | 67.4 | 1 | 21.0-138 | | | 20.8 | 35 |
| Gamma BHC | 0.0659 | U | 0.0574 | 0.0466 | 87.1 | 71.4 | 1 | 27.0-137 | | | 20.8 | 36 |
| 4,4-DDD | 0.0659 | U | 0.0629 | 0.0509 | 95.4 | 77.9 | 1 | 15.0-152 | | | 21.1 | 39 |
| 4,4-DDE | 0.0659 | 0.0387 | 0.111 | 0.0876 | 110 | 74.9 | 1 | 10.0-152 | | | 23.6 | 40 |
| 4,4-DDT | 0.0659 | U | 0.0606 | 0.0491 | 92.0 | 75.2 | 1 | 10.0-151 | | | 21.0 | 40 |
| Dieldrin | 0.0659 | U | 0.0615 | 0.0515 | 93.3 | 78.9 | 1 | 17.0-145 | | | 17.7 | 37 |
| Endosulfan I | 0.0659 | U | 0.0577 | 0.0466 | 87.6 | 71.4 | 1 | 20.0-137 | | | 21.3 | 36 |
| Endosulfan II | 0.0659 | U | 0.0618 | 0.0506 | 93.8 | 77.5 | 1 | 15.0-141 | | | 19.9 | 37 |
| Endosulfan sulfate | 0.0659 | U | 0.0552 | 0.0462 | 83.8 | 70.8 | 1 | 15.0-143 | | | 17.8 | 38 |
| Endrin | 0.0659 | U | 0.0582 | 0.0485 | 88.3 | 74.3 | 1 | 19.0-143 | | | 18.2 | 37 |
| Endrin aldehyde | 0.0659 | U | 0.0602 | 0.0509 | 91.4 | 77.9 | 1 | 10.0-139 | | | 16.7 | 40 |
| Endrin ketone | 0.0659 | U | 0.0580 | 0.0481 | 88.0 | 73.7 | 1 | 17.0-149 | | | 18.7 | 38 |
| Heptachlor | 0.0659 | U | 0.0580 | 0.0472 | 88.0 | 72.3 | 1 | 22.0-138 | | | 20.5 | 37 |
| Heptachlor epoxide | 0.0659 | U | 0.0583 | 0.0474 | 88.5 | 72.6 | 1 | 22.0-138 | | | 20.6 | 36 |
| Hexachlorobenzene | 0.0659 | U | 0.0553 | 0.0455 | 83.9 | 69.7 | 1 | 25.0-126 | | | 19.4 | 35 |
| Methoxychlor | 0.0659 | U | 0.0639 | 0.0538 | 97.0 | 82.4 | 1 | 10.0-159 | | | 17.2 | 40 |
| *(S) Decachlorobiphenyl* | | | | | *95.8* | *88.4* | | *10.0-135* | | | | |
| *(S) Tetrachloro-m-xylene* | | | | | *93.2* | *85.5* | | *10.0-139* | | | | |

## Method an M

M 4120207-3 09/13/24 21:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acenaphthene | U | | 0.00539 | 0.0333 |
| Acenaphthylene | U | | 0.00469 | 0.0333 |
| Anthracene | U | | 0.00593 | 0.0333 |
| Benzidine | U | | 0.0626 | 1.67 |
| Benzo(a)anthracene | U | | 0.00587 | 0.0333 |
| Benzo(b)fluoranthene | U | | 0.00621 | 0.0333 |
| Benzo(k)fluoranthene | U | | 0.00592 | 0.0333 |
| Benzo(g,h,i)perylene | U | | 0.00609 | 0.0333 |
| Benzo(a)pyrene | U | | 0.00619 | 0.0333 |
| Bis(2-chlorethoxy)methane | U | | 0.0100 | 0.333 |
| Bis(2-chloroethyl)ether | U | | 0.0110 | 0.333 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0144 | 0.333 |
| 4-Bromophenyl-phenylether | U | | 0.0117 | 0.333 |
| 2-Chloronaphthalene | U | | 0.00585 | 0.0333 |
| 4-Chlorophenyl-phenylether | U | | 0.0116 | 0.333 |
| Chrysene | U | | 0.00662 | 0.0333 |
| Dibenz(a,h)anthracene | U | | 0.00923 | 0.0333 |
| 3,3-Dichlorobenzidine | U | | 0.0123 | 0.333 |
| 2,4-Dinitrotoluene | U | | 0.00955 | 0.333 |
| 2,6-Dinitrotoluene | U | | 0.0109 | 0.333 |
| Fluoranthene | U | | 0.00601 | 0.0333 |
| Fluorene | U | | 0.00542 | 0.0333 |
| Hexachlorobenzene | U | | 0.0118 | 0.333 |
| Hexachloro-1,3-butadiene | U | | 0.0112 | 0.333 |
| Hexachlorocyclopentadiene | U | | 0.0175 | 0.333 |
| Hexachloroethane | U | | 0.0131 | 0.333 |
| Indeno(1,2,3-cd)pyrene | U | | 0.00941 | 0.0333 |
| Isophorone | U | | 0.0102 | 0.333 |
| Naphthalene | U | | 0.00836 | 0.0333 |
| Nitrobenzene | U | | 0.0116 | 0.333 |
| n-Nitrosodimethylamine | U | | 0.0494 | 0.333 |
| n-Nitrosodiphenylamine | U | | 0.0252 | 0.333 |
| n-Nitrosodi-n-propylamine | U | | 0.0111 | 0.333 |
| Phenanthrene | U | | 0.00661 | 0.0333 |
| Benzylbutyl phthalate | U | | 0.0104 | 0.333 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0422 | 0.333 |
| Di-n-butyl phthalate | U | | 0.0114 | 0.333 |
| Diethyl phthalate | U | | 0.0110 | 0.333 |
| Dimethyl phthalate | U | | 0.0706 | 0.333 |
| Di-n-octyl phthalate | U | | 0.0225 | 0.333 |

## Method an M

M 4120207-3 09/13/24 21:52

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Pyrene | U | | 0.00648 | 0.0333 |
| 1,2,4-Trichlorobenzene | U | | 0.0104 | 0.333 |
| 4-Chloro-3-methylphenol | U | | 0.0108 | 0.333 |
| 2-Chlorophenol | U | | 0.0110 | 0.333 |
| 2,4-Dichlorophenol | U | | 0.00970 | 0.333 |
| 2,4-Dimethylphenol | U | | 0.00870 | 0.333 |
| 4,6-Dinitro-2-methylphenol | U | | 0.0755 | 0.333 |
| 2,4-Dinitrophenol | U | | 0.0779 | 0.333 |
| 2-Nitrophenol | U | | 0.0119 | 0.333 |
| 4-Nitrophenol | U | | 0.0104 | 0.333 |
| Pentachlorophenol | U | | 0.00896 | 0.333 |
| Phenol | U | | 0.0134 | 0.333 |
| 2,4,6-Trichlorophenol | U | | 0.0107 | 0.333 |
| *(S) 2-Fluorophenol* | *72.8* | | | *12.0-120* |
| *(S) Phenol-d5* | *67.7* | | | *10.0-120* |
| *(S) Nitrobenzene-d5* | *59.2* | | | *10.0-122* |
| *(S) 2-Fluorobiphenyl* | *68.8* | | | *15.0-120* |
| *(S) 2,4,6-Tribromophenol* | *68.2* | | | *10.0-127* |
| *(S) p-Terphenyl-d14* | *76.9* | | | *10.0-120* |

## Laborator Contro Samp e LCS

LCS 4120207-1 09/13/24 21:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Acenaphthene | 0.666 | 0.543 | 81.5 | 38.0-120 | |
| Acenaphthylene | 0.666 | 0.539 | 80.9 | 40.0-120 | |
| Anthracene | 0.666 | 0.606 | 91.0 | 42.0-120 | |
| Benzidine | 1.33 | 0.571 | 42.9 | 10.0-120 | |
| Benzo(a)anthracene | 0.666 | 0.592 | 88.9 | 44.0-120 | |
| Benzo(b)fluoranthene | 0.666 | 0.602 | 90.4 | 43.0-120 | |
| Benzo(k)fluoranthene | 0.666 | 0.621 | 93.2 | 44.0-120 | |
| Benzo(g,h,i)perylene | 0.666 | 0.572 | 85.9 | 43.0-120 | |
| Benzo(a)pyrene | 0.666 | 0.623 | 93.5 | 45.0-120 | |
| Bis(2-chlorethoxy)methane | 0.666 | 0.436 | 65.5 | 20.0-120 | |
| Bis(2-chloroethyl)ether | 0.666 | 0.593 | 89.0 | 16.0-120 | |
| 2,2-Oxybis(1-Chloropropane) | 0.666 | 0.494 | 74.2 | 23.0-120 | |
| 4-Bromophenyl-phenylether | 0.666 | 0.627 | 94.1 | 40.0-120 | |
| 2-Chloronaphthalene | 0.666 | 0.524 | 78.7 | 35.0-120 | |

## Laborator Contro Samp e LCS

LCS 4120207-1 09/13/24 21:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 4-Chlorophenyl-phenylether | 0.666 | 0.578 | 86.8 | 40.0-120 | |
| Chrysene | 0.666 | 0.609 | 91.4 | 43.0-120 | |
| Dibenz(a,h)anthracene | 0.666 | 0.618 | 92.8 | 44.0-120 | |
| 3,3-Dichlorobenzidine | 1.33 | 1.07 | 80.5 | 28.0-120 | |
| 2,4-Dinitrotoluene | 0.666 | 0.615 | 92.3 | 45.0-120 | |
| 2,6-Dinitrotoluene | 0.666 | 0.582 | 87.4 | 42.0-120 | |
| Fluoranthene | 0.666 | 0.628 | 94.3 | 44.0-120 | |
| Fluorene | 0.666 | 0.569 | 85.4 | 41.0-120 | |
| Hexachlorobenzene | 0.666 | 0.587 | 88.1 | 39.0-120 | |
| Hexachloro-1,3-butadiene | 0.666 | 0.448 | 67.3 | 15.0-120 | |
| Hexachlorocyclopentadiene | 0.666 | 0.411 | 61.7 | 15.0-120 | |
| Hexachloroethane | 0.666 | 0.466 | 70.0 | 17.0-120 | |
| Indeno(1,2,3-cd)pyrene | 0.666 | 0.569 | 85.4 | 45.0-120 | |
| Isophorone | 0.666 | 0.422 | 63.4 | 23.0-120 | |
| Naphthalene | 0.666 | 0.441 | 66.2 | 18.0-120 | |
| Nitrobenzene | 0.666 | 0.412 | 61.9 | 17.0-120 | |
| n-Nitrosodimethylamine | 0.666 | 0.453 | 68.0 | 10.0-125 | |
| n-Nitrosodiphenylamine | 0.666 | 0.589 | 88.4 | 40.0-120 | |
| n-Nitrosodi-n-propylamine | 0.666 | 0.492 | 73.9 | 26.0-120 | |
| Phenanthrene | 0.666 | 0.600 | 90.1 | 42.0-120 | |
| Benzylbutyl phthalate | 0.666 | 0.577 | 86.6 | 40.0-120 | |
| Bis(2-ethylhexyl)phthalate | 0.666 | 0.575 | 86.3 | 41.0-120 | |
| Di-n-butyl phthalate | 0.666 | 0.593 | 89.0 | 43.0-120 | |
| Diethyl phthalate | 0.666 | 0.576 | 86.5 | 43.0-120 | |
| Dimethyl phthalate | 0.666 | 0.557 | 83.6 | 43.0-120 | |
| Di-n-octyl phthalate | 0.666 | 0.564 | 84.7 | 40.0-120 | |
| Pyrene | 0.666 | 0.592 | 88.9 | 41.0-120 | |
| 1,2,4-Trichlorobenzene | 0.666 | 0.438 | 65.8 | 17.0-120 | |
| 4-Chloro-3-methylphenol | 0.666 | 0.439 | 65.9 | 28.0-120 | |
| 2-Chlorophenol | 0.666 | 0.523 | 78.5 | 28.0-120 | |
| 2,4-Dichlorophenol | 0.666 | 0.468 | 70.3 | 25.0-120 | |
| 2,4-Dimethylphenol | 0.666 | 0.457 | 68.6 | 15.0-120 | |
| 4,6-Dinitro-2-methylphenol | 0.666 | 0.564 | 84.7 | 16.0-120 | |
| 2,4-Dinitrophenol | 0.666 | 0.389 | 58.4 | 10.0-120 | |
| 2-Nitrophenol | 0.666 | 0.464 | 69.7 | 20.0-120 | |
| 4-Nitrophenol | 0.666 | 0.568 | 85.3 | 27.0-120 | |
| Pentachlorophenol | 0.666 | 0.529 | 79.4 | 29.0-120 | |
| Phenol | 0.666 | 0.504 | 75.7 | 28.0-120 | |
| 2,4,6-Trichlorophenol | 0.666 | 0.501 | 75.2 | 37.0-120 | |
| *(S) 2-Fluorophenol* | | | *79.4* | *12.0-120* | |

## Laborator Contro Samp e LCS

LCS 4120207-1 09/13/24 21:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| *(S) Phenol-d5* | | | *75.5* | *10.0-120* | |
| *(S) Nitrobenzene-d5* | | | *54.1* | *10.0-122* | |
| *(S) 2-Fluorobiphenyl* | | | *78.4* | *15.0-120* | |
| *(S) 2,4,6-Tribromophenol* | | | *90.4* | *10.0-127* | |
| *(S) p-Terphenyl-d14* | | | *81.1* | *10.0-120* | |

## L1776754-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776754-01 09/14/24 03:03 MS 4120207-4 09/14/24 03:24 MS 4120207-5 09/14/24 03:44

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.737 | U | 0.670 | 0.537 | 90.8 | 74.4 | 10 | 18.0-120 | | | 22.0 | 32 |
| Acenaphthylene | 0.737 | U | 0.610 | 0.521 | 82.7 | 72.2 | 10 | 25.0-120 | | | 15.7 | 32 |
| Anthracene | 0.737 | 0.101 | 0.785 | 0.615 | 92.7 | 71.2 | 10 | 22.0-120 | | | 24.2 | 29 |
| Benzidine | 1.47 | U | U | U | 0.000 | 0.000 | 10 | 10.0-120 | 6 | 6 | 0.000 | 40 |
| Benzo(a)anthracene | 0.737 | 0.241 | 1.05 | 0.733 | 109 | 68.1 | 10 | 25.0-120 | | 3 | 35.4 | 29 |
| Benzo(b)fluoranthene | 0.737 | 0.414 | 1.31 | 1.02 | 121 | 84.0 | 10 | 19.0-122 | | | 24.5 | 31 |
| Benzo(k)fluoranthene | 0.737 | 0.136 | 0.880 | 0.749 | 101 | 85.0 | 10 | 23.0-120 | | | 16.0 | 30 |
| Benzo(g,h,i)perylene | 0.737 | 0.187 | 0.593 | 0.433 | 55.1 | 34.0 | 10 | 10.0-120 | | | 31.3 | 33 |
| Benzo(a)pyrene | 0.737 | 0.253 | 1.04 | 0.788 | 107 | 74.1 | 10 | 24.0-120 | | | 27.5 | 30 |
| Bis(2-chlorethoxy)methane | 0.737 | U | 0.623 | 0.538 | 84.5 | 74.5 | 10 | 10.0-120 | | | 14.7 | 34 |
| Bis(2-chloroethyl)ether | 0.737 | U | 0.686 | 0.620 | 93.1 | 85.9 | 10 | 10.0-120 | | | 10.2 | 40 |
| 2,2-Oxybis(1-Chloropropane) | 0.737 | U | 0.632 | 0.575 | 85.7 | 79.8 | 10 | 10.0-120 | | | 9.35 | 40 |
| 4-Bromophenyl-phenylether | 0.737 | U | 0.672 | 0.587 | 91.1 | 81.3 | 10 | 27.0-120 | | | 13.5 | 30 |
| 2-Chloronaphthalene | 0.737 | U | 0.590 | 0.502 | 80.0 | 69.6 | 10 | 20.0-120 | | | 16.0 | 32 |
| 4-Chlorophenyl-phenylether | 0.737 | U | 0.653 | 0.543 | 88.6 | 75.3 | 10 | 24.0-120 | | | 18.3 | 29 |
| Chrysene | 0.737 | 0.225 | 1.10 | 0.754 | 119 | 73.3 | 10 | 21.0-120 | | 3 | 37.7 | 29 |
| Dibenz(a,h)anthracene | 0.737 | U | 0.459 | 0.332 | 62.3 | 46.0 | 10 | 10.0-120 | | 3 | 32.2 | 32 |
| 3,3-Dichlorobenzidine | 1.47 | U | 0.356 | 0.465 | 24.2 | 32.3 | 10 | 10.0-120 | | | 26.4 | 34 |
| 2,4-Dinitrotoluene | 0.737 | U | 0.590 | 0.407 | 80.0 | 56.4 | 10 | 30.0-120 | | 3 | 36.6 | 31 |
| 2,6-Dinitrotoluene | 0.737 | U | 0.634 | 0.482 | 86.0 | 66.9 | 10 | 25.0-120 | | | 27.2 | 31 |
| Fluoranthene | 0.737 | 0.550 | 1.58 | 0.955 | 140 | 56.1 | 10 | 18.0-126 | 5 | 3 | 49.5 | 32 |
| Fluorene | 0.737 | U | 0.676 | 0.561 | 91.7 | 77.8 | 10 | 25.0-120 | | | 18.6 | 30 |
| Hexachlorobenzene | 0.737 | 3.31 | 0.907 | 0.724 | 0.000 | 0.000 | 10 | 27.0-120 | | | 22.5 | 28 |
| Hexachloro-1,3-butadiene | 0.737 | U | 0.679 | 0.557 | 92.2 | 77.1 | 10 | 10.0-120 | | | 19.9 | 38 |
| Hexachlorocyclopentadiene | 0.737 | U | U | U | 4.73 | 1.95 | 10 | 10.0-120 | 6 | 3 6 | 85.1 | 40 |
| Hexachloroethane | 0.737 | U | 0.398 | 0.340 | 54.1 | 47.1 | 10 | 10.0-120 | | | 15.9 | 40 |
| Indeno(1,2,3-cd)pyrene | 0.737 | 0.163 | 0.671 | 0.418 | 68.9 | 35.4 | 10 | 10.0-120 | | 3 | 46.3 | 32 |
| Isophorone | 0.737 | U | 0.621 | 0.539 | 84.2 | 74.7 | 10 | 13.0-120 | | | 14.1 | 34 |

L1776754-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776754-01 09/14/24 03:03 MS 4120207-4 09/14/24 03:24 MS 4120207-5 09/14/24 03:44

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.737 | U | 0.694 | 0.615 | 94.1 | 85.3 | 10 | 10.0-120 | | | 12.0 | 35 |
| Nitrobenzene | 0.737 | U | 0.620 | 0.527 | 84.1 | 73.0 | 10 | 10.0-120 | | | 16.2 | 36 |
| n-Nitrosodimethylamine | 0.737 | U | 0.644 | U | 87.4 | 0.000 | 10 | 10.0-127 | | 3 6 | 200 | 40 |
| n-Nitrosodiphenylamine | 0.737 | U | 0.650 | 0.565 | 88.1 | 78.4 | 10 | 17.0-120 | | | 13.8 | 29 |
| n-Nitrosodi-n-propylamine | 0.737 | U | 0.634 | 0.583 | 86.0 | 80.8 | 10 | 10.0-120 | | | 8.36 | 37 |
| Phenanthrene | 0.737 | 0.399 | 1.16 | 0.774 | 103 | 51.8 | 10 | 17.0-120 | | 3 | 40.1 | 31 |
| Benzylbutyl phthalate | 0.737 | U | 0.729 | 0.681 | 98.9 | 94.3 | 10 | 23.0-120 | | | 6.91 | 30 |
| Bis(2-ethylhexyl)phthalate | 0.737 | 12.4 | 8.75 | 2.53 | 0.000 | 0.000 | 10 | 17.0-126 | | 3 | 110 | 30 |
| Di-n-butyl phthalate | 0.737 | U | 0.718 | 0.645 | 97.4 | 89.4 | 10 | 30.0-120 | | | 10.7 | 29 |
| Diethyl phthalate | 0.737 | U | 0.629 | 0.546 | 85.3 | 75.6 | 10 | 26.0-120 | | | 14.1 | 28 |
| Dimethyl phthalate | 0.737 | U | U | U | 82.4 | 71.9 | 10 | 25.0-120 | | | 15.7 | 29 |
| Di-n-octyl phthalate | 0.737 | U | 0.749 | 0.626 | 102 | 86.8 | 10 | 21.0-123 | | | 17.9 | 29 |
| Pyrene | 0.737 | 0.461 | 1.39 | 0.940 | 127 | 66.3 | 10 | 16.0-121 | 5 | 3 | 39.0 | 32 |
| 1,2,4-Trichlorobenzene | 0.737 | U | 0.629 | 0.549 | 85.3 | 76.1 | 10 | 12.0-120 | | | 13.5 | 37 |
| 4-Chloro-3-methylphenol | 0.737 | U | 0.645 | 0.600 | 87.5 | 83.1 | 10 | 15.0-120 | | | 7.29 | 30 |
| 2-Chlorophenol | 0.737 | U | 0.629 | 0.557 | 85.3 | 77.1 | 10 | 15.0-120 | | | 12.1 | 37 |
| 2,4-Dichlorophenol | 0.737 | U | 0.611 | 0.535 | 82.9 | 74.1 | 10 | 20.0-120 | | | 13.3 | 31 |
| 2,4-Dimethylphenol | 0.737 | U | 0.629 | 0.546 | 85.3 | 75.6 | 10 | 10.0-120 | | | 14.1 | 33 |
| 4,6-Dinitro-2-methylphenol | 0.737 | U | U | U | 13.3 | 0.000 | 10 | 10.0-120 | | 3 6 | 200 | 39 |
| 2,4-Dinitrophenol | 0.666 | U | U | U | 0.000 | 0.000 | 10 | 10.0-121 | 6 | 6 | 0.000 | 40 |
| 2-Nitrophenol | 0.737 | U | 0.544 | 0.419 | 73.9 | 58.1 | 10 | 12.0-120 | | | 25.9 | 39 |
| 4-Nitrophenol | 0.737 | U | 0.590 | 0.440 | 80.0 | 61.0 | 10 | 10.0-137 | | | 29.0 | 32 |
| Pentachlorophenol | 0.737 | U | 0.563 | 0.476 | 76.4 | 66.0 | 10 | 10.0-160 | | | 16.8 | 31 |
| Phenol | 0.737 | U | 0.609 | 0.515 | 82.6 | 71.3 | 10 | 12.0-120 | | | 16.7 | 38 |
| 2,4,6-Trichlorophenol | 0.737 | U | 0.536 | 0.486 | 72.7 | 67.3 | 10 | 19.0-120 | | | 9.75 | 32 |
| *(S) 2-Fluorophenol* | | | | | *91.1* | *80.4* | | *12.0-120* | | | | |
| *(S) Phenol-d5* | | | | | *80.6* | *72.1* | | *10.0-120* | | | | |
| *(S) Nitrobenzene-d5* | | | | | *66.4* | *67.2* | | *10.0-122* | | | | |
| *(S) 2-Fluorobiphenyl* | | | | | *80.8* | *69.6* | | *15.0-120* | | | | |
| *(S) 2,4,6-Tribromophenol* | | | | | *86.2* | *77.3* | | *10.0-127* | | | | |
| *(S) p-Terphenyl-d14* | | | | | *82.0* | *76.7* | | *10.0-120* | | | | |

**Sample Narrative:**

OS: Dilution due to matrix impact during extraction procedure

## u de to ead ng and Understand ng our Laborator eport

The nformat on be o s des gned to better e p a n the ar ous terms used n our report of ana t ca resu ts from the Laborator Th s s not ntended as a comprehens e e p anat on, and f ou ha e add t ona uest ons p ease contact our project representat e

esu ts sc a mer - Informat on that ma be pro ded b the customer, and conta ned th n th s report, nc ude Perm t L m ts, Project ame, Samp e I , Samp e Matr , Samp e Preser at on, e d an s, e d Sp es, e d up cates, n-S te ata, Samp ng Co ect on ates/T mes, and Samp ng Locat on esu ts re ate to the accurac of th s nformat on pro ded, and as the samp es are rece ed

## Abbre at ons and ef n t ons

| | |
|---|---|
| dr | esu ts are reported based on the dr e ght of the samp e th s on be present on a dr report bas s for so s |
| M L | Method etect on L m t |
| M L dr | Method etect on L m t |
| L | eported etect on L m t |
| L dr | eported etect on L m t |
| ec | eco er |
| P | e at e Percent fference |
| S | Samp e e er roup |
| S | Surrogate Surrogate Standard - Ana tes added to e er b an , samp e, Laborator Contro Samp e/ up cate and Matr Sp e/ up cate used to e a uate ana t ca eff c enc b measur ng reco er Surrogates are not e pected to be detected n a en ronmenta med a |
| U | ot detected at the eport ng L m t or M L here app cab e |
| Ana te | The name of the part cu ar compound or ana s s performed Some Ana ses and Methods ha e mu t p e ana tes reported |
| ut on | If the samp e matr conta ns an nterfer ng mater a , the samp e preparat on o ume or e ght a ues d ffer from the standard, or f concentrat ons of ana tes n the samp e are h gher than the h ghest m t of concentrat on that the aborator can accurate report, the samp e ma be d uted for ana s s If a a ue d fferent than 1 s used n th s f e d, the resu t reported has a read been corrected for th s factor |
| L m ts | These are the target reco er ranges or d fference a ue that the aborator has h stor ca determ ned as norma for the method and ana te be ng reported Successfu C Samp e ana s s target a ana tes reco ered or dup cated th n these ranges |
| r g na Samp e | The non-sp ed samp e n the prep batch used to determ ne the e at e Percent fference P from a ua t contro samp e The r g na Samp e ma not be nc uded th n the reported S |
| ua f er | Th s co umn pro des a etter and/or number des gnat on that corresponds to add t ona nformat on concern ng the resu t reported If a ua f er s present, a def n t on per ua f er s pro ded th n the ossar and ef n t ons page and potent a a d scuss on of poss b e mp cat ons of the ua f er n the Case arrat e f app cab e |
| esu t | The actua ana t ca f na resu t corrected for an samp e spec f c character st cs reported for our samp e If there as no measurab e resu t returned for a spec f c ana te, the resu t n th s co umn ma state ot etected or L e o etectab e Le e s The nformat on n the resu ts co umn shou d a a s be accompan ed b e ther an M L Method etect on L m t or L eport ng etect on L m t that def nes the o est a ue that the aborator cou d detect or report for th s ana te |
| Uncerta nt ad ochem str | Conf dence e e of 2 s gma |
| Case arrat e Cn | A br ef d scuss on about the nc uded samp e resu ts, nc ud ng a d scuss on of an non-conformances to protoco obser ed e ther at samp e rece pt b the aborator from the f e d or dur ng the ana t ca process If present, there be a sect on n the Case arrat e to d scuss the mean ng of an data ua f ers used n the report |
| ua t Contro Summar c | Th s sect on of the report nc udes the resu ts of the aborator ua t contro ana ses re u red b procedure or ana t ca methods to ass st n e a uat ng the a d t of the resu ts reported for our samp es These ana ses are not be ng performed on our samp es t p ca , but on aborator generated mater a |
| Samp e Cha n of Custod Sc | Th s s the document created n the f e d hen our samp es ere n t a co ected Th s s used to er f the t me and date of co ect on, the person co ect ng the samp es, and the ana ses that the aborator s re uested to perform Th s cha n of custod a so documents a persons e c ud ng commerc a sh ppers that ha e had contro or possess on of the samp es from the t me of co ect on unt de er to the aborator for ana s s |
| Samp e esu ts Sr | Th s sect on of our report pro de the resu ts of a test ng performed on our samp es These resu ts are pro ded b samp e I and are separated b the ana ses performed on each samp e The header ne of each ana s s sect on for each samp e pro de the name and method number for the ana s s reported |
| Samp e Summar Ss | Th s sect on of the Ana t ca eport def nes the spec f c ana ses performed for each samp e I , nc ud ng the dates and t mes of preparat on and/or ana s s |

## ua f er escr pt on

| | |
|---|---|
| | The same ana te s found n the assoc ated b an |
| | The dent f cat on of the ana te s acceptab e the reported a ue s an est mate |
| 1 | Surrogate reco er m ts ha e been e ceeded a ues are outs de upper contro m ts |
| 3 | The assoc ated batch C as outs de the estab shed ua t contro range for prec s on |
| 4 | The assoc ated batch C as outs de the estab shed ua t contro range for accurac |
| 5 | The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s h gh |
| 6 | The samp e matr nterfered th the ab t to ma e an accurate determ nat on sp e a ue s o |
| | The samp e concentrat on s too h gh to e a uate accurate sp e reco er es |

# ACC E ITATI S L CATI S

## Pace Ana t ca at ona 12065 Lebanon d Mount u et, T 37122

| | | | |
|---|---|---|---|
| Ala ama | | Ne raska | N OS |
| Alaska | | Nevada | N |
| Ari ona | A | Ne ampshire | |
| Arkansas | | Ne ersey N LAP | N |
| California | | Ne Me ico | N |
| Colorado | N | Ne ork | |
| Connecticut | P | North Carolina | nv |
| lorida | | North Carolina | D |
| eorgia | N LAP | North Carolina | |
| eorgia | | North Dakota | R |
| daho | N | Ohio AP | CL |
| llinois | | Oklahoma | |
| ndiana | C N | Oregon | N |
| o a | | Pennsylvania | |
| ansas | | Rhode sland | LAO |
| entucky | | South Carolina | |
| entucky | | South Dakota | n a |
| Louisiana | A | ennessee | |
| Louisiana | LA | e as | |
| Maine | N | e as | LAB |
| Maryland | | Utah | N |
| Massachusetts | M N | ermont | |
| Michigan | | irginia | |
| Minnesota | | ashington | C |
| Mississippi | N | est irginia | |
| Missouri | | isconsin | |
| Montana | C R | yoming | A LA |
| A LA SO | . | A A LAP LLC MLAP | |
| A LA SO | . | DOD | . |
| Canada | . | USDA | P |
| PA Crypto | N | | |

Drinking ater Underground Storage anks A uatic o icity Chemical Micro iological Mold aste ater n a Accreditation not applica le
Not all certifications held y the la oratory are applica le to the results reported in the attached report.
Accreditation is only applica le to the test methods specified on each scope of accreditation held y Pace Analytical.

Company Name/Address:
**Tetra Tech EMI - Houston, TX**
1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to: Diana Eldam/Manuela Pastrano

Email To: manuela.pastrano@tetratech.com;diana.eldam

Project Description: DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #: TETRAHTX-KELLER

Collected by (print): Marx Modarczyk

Site/Facility ID #

P.O. #

Collected by (signature): Marx W.

Immediately Packed on ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCA, SV8270 8ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | MRCRA8 8ozClr-NoPres | SV8001,SV0141,SV0151 8ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area3-Comp | Comp | SS | 0-0.5 | 9/10/24 | 0800 | 3 | X | X | X | X | X | | | | | | | -01 |
| Area3-1-0.5 | Grab | SS | 0-0.5 | | 0700 | | | | | | | | | | | | Hold Sample | -02 |
| Area3-1-2 | | SS | 1-2 | | 0710 | | | | | | | | | | | | Hold Sample | -03 |
| Area3-2-0.5 | | SS | 0-0.5 | | 0715 | | | | | | | | | | | | Hold Sample | -04 |
| Area3-2-2 | | SS | 1-2 | | 0725 | | | | | | | | | | | | Hold Sample | -05 |
| Area3-3-0.5 | | SS | 0-0.5 | | 0730 | | | | | | | | | | | | Hold Sample | -06 |
| Area3-3-2 | | SS | 1-2 | | 0735 | | | | | | | | | | | | Hold Sample | -07 |
| Area3-4-0.5 | | SS | 0-0.5 | | 0740 | | | | | | | | | | | | Hold Sample | -08 |
| Area3-4-2 | | SS | 1-2 | | 0745 | | | | | | | | | | | | Hold Sample | -09 |
| Area3-5-0.5 | | SS | 0-0.5 | | 0750 | | | | | | | | | | | | Hold Sample | -10 |

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: All discrete soil samples will be placed on hold for same analyses at the lab, pending the results of the composite soil samples.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 410291699059

Relinquished by: (Signature) — Date: 9/10/24 — Time: 1530 — Received by: (Signature)

Trip Blank Received: Yes / No — HCl / MeOH — TBR

Relinquished by: (Signature) — Date: — Time: — Received by: (Signature)

Temp: TLOG °C — Bottles Received: 33

Relinquished by: (Signature) — Date: — Time: — Received for lab by: (Signature) — Date: 9/11/24 — Time: 0945

Hold: — Condition: NCF OK

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

If preservation required by Login: Date/Time

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 176638
D015

Acctnum: TETRAHTX
Template: T259254
Prelogin: P1097698
PM: 3564 - Chad A Upchurch
PB:
Shipped Via: FedEx Priority

CONFIDENTIAL

No reliance without separate reliance agreement.

Company Name/Address:
**Tetra Tech EMI - Houston, TX**

1500 CityWest Boulevard
Suite 1000
Houston, TX 77042

Billing Information:
Accounts Payable
901 West Wall
Suite 100
Midland, TX 79701

Pres Chk

Report to:
Diana Eldam/Manuela Pastrano

Email To:
manuela.pastrano@tetratech.com;diana.eldam

Project Description:
DR Horton - (COR) Keller Crossing Phase II

City/State Collected:

Please Circle: PT MT CT ET

Phone: 832-251-5160

Client Project #

Lab Project #
TETRAHTX-KELLER

Collected by (print):
Mark Wodarczyk

Site/Facility ID #

P.O. #

Collected by (signature):
Mark W.

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | DROCA, SV0270 8ozClr-NoPres | GROCA 40mlAmb/MeOH10ml/Syr | MRCRA8 8ozClr-NoPres | SV0001,SV0141,SV0151 8ozClr-NoPres | V8260 40mlAmb/MeOH10ml/Syr | | | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Area3-5-2 | Grab | SS | 1-2 | 9/10/24 | 0755 | 3 | | | | | | | | | | | Hold samples | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |
| | | SS | | | | | | | | | | | | | | | | |

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

SDG # 177663B

Table #

Acctnum: TETRAHTX
Template: T259254
Prelogin: P1097698
PM: 3564 - Chad A Upchurch
PB:
Shipped Via: FedEX Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: See page 1 remarks

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No, HCL / MeoH, TBR |
|---|---|---|---|---|
| | 9/10/24 | 1530 | | 1 |
| Relinquished by: (Signature) | Date: | Time: | Received by: (Signature) | Temp: 2.4 °C Bottles Received: 33 |
| | | | | Cr.t+.3=a.4 |
| Relinquished by: (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 9/11/24 Time: 0946 |
| | | | | |

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

CONFIDENTIAL

No reliance without separate reliance agreement.

# ANALYTICAL REPORT

September 18, 2024

## Tetra Tech EMI - Houston, TX

Samp e e er roup: L1776637

Samp es ece ed: 09/11/2024

Project umber:

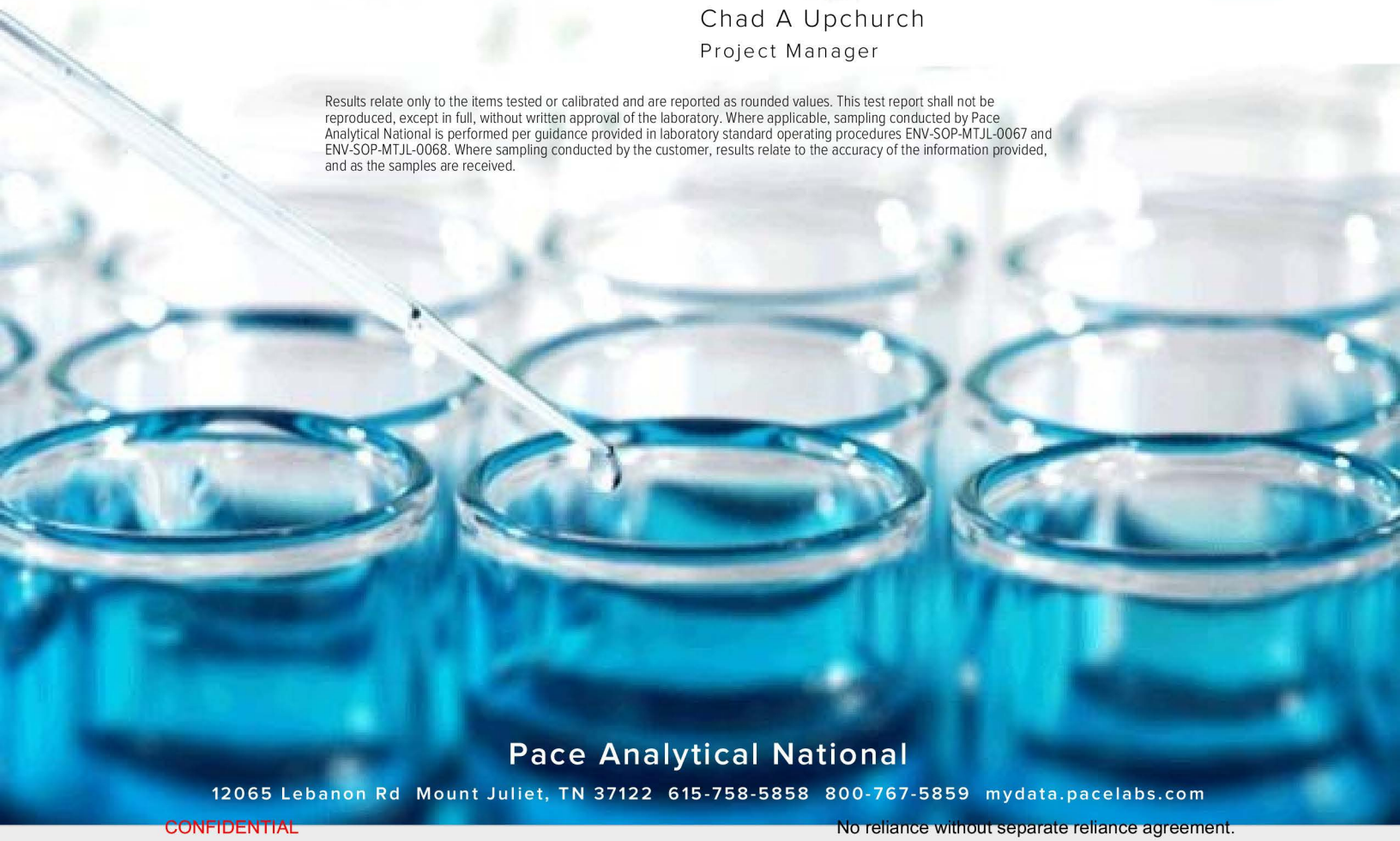
escr pt on: Horton - C e er Cross ng Phase II

eport To: ana E dam/Manue a Pastrano
1500 C t est ou e ard
Su te 1000
Houston, TX 77042

Ent re eport e e ed :

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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## A EA 4-C MP L1776637-01 So d

| Collected by | Collected date/time | Received date/time |
|---|---|---|
| Maxx Wlodarczyk | 09/10/24 09:35 | 09/11/24 09:00 |

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Total Solids by Method 2540 G-2011 | WG2361768 | 1 | 09/13/24 07:37 | 09/13/24 07:43 | MT | Mt. Juliet, TN |
| Mercury by Method 7471A | WG2361636 | 1 | 09/13/24 09:22 | 09/13/24 14:43 | LAS | Mt. Juliet, TN |
| Metals (ICP) by Method 6010D | WG2361859 | 1 | 09/13/24 09:01 | 09/13/24 12:55 | JTM | Mt. Juliet, TN |
| Volatile Organic Compounds (GC) by Method 8015 | WG2361477 | 27.8 | 09/10/24 09:35 | 09/12/24 20:08 | JAH | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260B | WG2361469 | 1.11 | 09/10/24 09:35 | 09/12/24 15:49 | JHH | Mt. Juliet, TN |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG2361146 | 1 | 09/13/24 13:11 | 09/14/24 09:47 | KKS | Mt. Juliet, TN |
| Chlorinated Acid Herbicides (GC) by Method 8151 | WG2363124 | 1 | 09/16/24 14:50 | 09/17/24 21:53 | MEW | Mt. Juliet, TN |
| OP Pesticides by Method 8141 | WG2361107 | 1 | 09/12/24 22:18 | 09/13/24 19:02 | MEW | Mt. Juliet, TN |
| Pesticides (GC) by Method 8081 | WG2361741 | 1 | 09/13/24 07:28 | 09/13/24 15:11 | MEW | Mt. Juliet, TN |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C | WG2361742 | 2 | 09/13/24 13:08 | 09/14/24 01:40 | DSH | Mt. Juliet, TN |

A samp e a uots ere rece ed at the correct temperature, n the proper conta ners, th the appropr ate preser at es, and th n method spec f ed ho d ng t mes, un ess ua f ed or notated th n the report here app cab e, a M L L and L L a ues reported for en ronmenta samp es ha e been corrected for the d ut on factor used n the ana s s A Method and atch ua t Contro are th n estab shed cr ter a e cept here addressed n th s case narrat e, a non-conformance form or proper ua f ed th n the samp e resu ts m d g ta s gnature be o , l aff rm to the best of m no edge, a prob ems/anoma es obser ed b the aborator as ha ng the potent a to affect the ua t of the data ha e been dent f ed b the aborator , and no nformat on or data ha e been no ng thhe d that ou d affect the ua t of the data

Chad A Upchurch
Project Manager

## Tota So ds b Method 2540 -2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | % | | | date / time | |
| Total Solids | 96.2 | | 1 | 09/13/2024 07:43 | WG2361768 |

## Mercur b Method 7471A

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Mercury | 0.0302 | _ | 0.0187 | 0.0416 | 1 | 09/13/2024 14:43 | WG2361636 |

## Meta s ICP b Method 6010

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Arsenic | 4.64 | | 0.538 | 2.08 | 1 | 09/13/2024 12:55 | WG2361859 |
| Barium | 105 | | 0.0886 | 0.520 | 1 | 09/13/2024 12:55 | WG2361859 |
| Cadmium | 0.559 | | 0.0490 | 0.520 | 1 | 09/13/2024 12:55 | WG2361859 |
| Chromium | 21.5 | | 0.138 | 1.04 | 1 | 09/13/2024 12:55 | WG2361859 |
| Lead | 9.50 | | 0.216 | 0.520 | 1 | 09/13/2024 12:55 | WG2361859 |
| Selenium | 1.78 | _ | 0.794 | 2.08 | 1 | 09/13/2024 12:55 | WG2361859 |
| Silver | 0.531 | __ | 0.132 | 1.04 | 1 | 09/13/2024 12:55 | WG2361859 |

## o at e rgan c Compounds C b Method 8015

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| TPHG C5 - C12 | 1.34 | __ | 0.992 | 2.99 | 27.8 | 09/12/2024 20:08 | WG2361477 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *106* | | | *77.0-120* | | *09/12/2024 20:08* | WG2361477 |

## o at e rgan c Compounds C/MS b Method 8260

| Analyte | Result (dry) | Qualifier | MDL (dry) | RDL (dry) | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|---|
| | mg/kg | | mg/kg | mg/kg | | date / time | |
| Acetone | U | | 0.0435 | 0.0596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Acrylonitrile | U | | 0.00431 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Benzene | U | | 0.000557 | 0.00119 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Bromobenzene | U | | 0.00107 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Bromodichloromethane | U | | 0.000865 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Bromoform | U | | 0.00140 | 0.0299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Bromomethane | U | | 0.00235 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| n-Butylbenzene | U | | 0.00627 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| sec-Butylbenzene | U | | 0.00344 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| tert-Butylbenzene | U | | 0.00232 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Carbon tetrachloride | U | | 0.00107 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Chlorobenzene | U | | 0.000250 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Chlorodibromomethane | U | | 0.000730 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Chloroethane | U | | 0.00203 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Chloroform | U | | 0.00123 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Chloromethane | U | | 0.00519 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 2-Chlorotoluene | U | | 0.00103 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 4-Chlorotoluene | U | | 0.000537 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00465 | 0.0299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,2-Dibromoethane | U | | 0.000773 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Dibromomethane | U | | 0.000895 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,2-Dichlorobenzene | U | | 0.000507 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,3-Dichlorobenzene | U | | 0.000716 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,4-Dichlorobenzene | U | | 0.000835 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Dichlorodifluoromethane | U | | 0.00192 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,1-Dichloroethane | U | | 0.000586 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |

## o at e rgan c Compounds C/MS b Method 8260

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloroethane | U | | 0.000774 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,1-Dichloroethene | U | | 0.000723 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| cis-1,2-Dichloroethene | U | | 0.000876 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| trans-1,2-Dichloroethene | U | | 0.00124 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,2-Dichloropropane | U | | 0.00170 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,1-Dichloropropene | U | | 0.000965 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,3-Dichloropropane | U | | 0.000598 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| cis-1,3-Dichloropropene | U | | 0.000903 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| trans-1,3-Dichloropropene | U | | 0.00136 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 2,2-Dichloropropane | U | | 0.00164 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Di-isopropyl ether | U | | 0.000489 | 0.00119 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Ethylbenzene | U | | 0.000879 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Hexachloro-1,3-butadiene | U | | 0.00716 | 0.0299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Isopropylbenzene | U | | 0.000507 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| p-Isopropyltoluene | U | | 0.00304 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 2-Butanone (MEK) | U | | 0.0758 | 0.119 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Methylene Chloride | U | | 0.00792 | 0.0299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00272 | 0.0299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Methyl tert-butyl ether | U | | 0.000418 | 0.00119 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Naphthalene | U | | 0.00582 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| n-Propylbenzene | U | | 0.00113 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Styrene | 0.000418 | J | 0.000273 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,1,1,2-Tetrachloroethane | U | | 0.00113 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000829 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000900 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Tetrachloroethene | U | | 0.00107 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Toluene | U | | 0.00155 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,2,3-Trichlorobenzene | U | | 0.00875 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,2,4-Trichlorobenzene | U | | 0.00524 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,1,1-Trichloroethane | U | | 0.00110 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,1,2-Trichloroethane | U | | 0.000713 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Trichloroethene | U | | 0.000696 | 0.00119 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Trichlorofluoromethane | U | | 0.000987 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,2,3-Trichloropropane | U | | 0.00193 | 0.0149 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,2,4-Trimethylbenzene | U | | 0.00188 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,2,3-Trimethylbenzene | U | | 0.00188 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| 1,3,5-Trimethylbenzene | U | | 0.00239 | 0.00596 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Vinyl chloride | U | | 0.00139 | 0.00299 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| Xylenes, Total | U | | 0.00105 | 0.00776 | 1.11 | 09/12/2024 15:49 | WG2361469 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* | | *09/12/2024 15:49* | WG2361469 |
| *(S) 4-Bromofluorobenzene* | *98.6* | | | *67.0-138* | | *09/12/2024 15:49* | WG2361469 |
| *(S) 1,2-Dichloroethane-d4* | *91.2* | | | *70.0-130* | | *09/12/2024 15:49* | WG2361469 |

## Sem - o at e rgan c Compounds C b Method 8015

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 9.29 | | 0.762 | 4.16 | 1 | 09/14/2024 09:47 | WG2361146 |
| *(S) o-Terphenyl* | *69.7* | | | *18.0-148* | | *09/14/2024 09:47* | WG2361146 |

## Ch or nated Ac d Herb c des C b Method 8151

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| 2,4-D | U | | 0.00730 | 0.0728 | 1 | 09/17/2024 21:53 | WG2363124 |
| Dalapon | U | | 0.0117 | 0.0728 | 1 | 09/17/2024 21:53 | WG2363124 |
| 2,4-DB | U | | 0.0309 | 0.0728 | 1 | 09/17/2024 21:53 | WG2363124 |
| Dicamba | U | | 0.0163 | 0.0728 | 1 | 09/17/2024 21:53 | WG2363124 |
| Dichloroprop | U | | 0.0255 | 0.0728 | 1 | 09/17/2024 21:53 | WG2363124 |
| Dinoseb | U | | 0.00724 | 0.0728 | 1 | 09/17/2024 21:53 | WG2363124 |
| MCPA | U | | 0.460 | 6.76 | 1 | 09/17/2024 21:53 | WG2363124 |
| MCPP | U | | 0.381 | 6.76 | 1 | 09/17/2024 21:53 | WG2363124 |
| 2,4,5-T | U | | 0.00886 | 0.0728 | 1 | 09/17/2024 21:53 | WG2363124 |
| 2,4,5-TP (Silvex) | U | | 0.0111 | 0.0728 | 1 | 09/17/2024 21:53 | WG2363124 |
| *(S) 2,4-Dichlorophenyl Acetic Acid* | *76.1* | | | *22.0-132* | | *09/17/2024 21:53* | WG2363124 |

## P Pest c des b Method 8141

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Azinphos-Methyl | U | | 0.0331 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Bolstar (Sulprofos) | U | 4 | 0.0155 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Chlorpyrifos | U | 4 | 0.0163 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Coumaphos | U | 4 | 0.0253 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Demeton,-O and -S | U | 4 | 0.00607 | 0.0728 | 1 | 09/13/2024 19:02 | WG2361107 |
| Diazinon | U | | 0.0234 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Dichlorvos | U | | 0.0312 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Dimethoate | U | | 0.0347 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Disulfoton | U | 4 | 0.0264 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| EPN | U | 4 | 0.0287 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Ethoprop | U | 4 | 0.0123 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Ethyl Parathion | U | 4 | 0.0170 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Fensulfothion | U | 4 | 0.0367 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Fenthion | U | 4 | 0.0138 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Malathion | U | 4 | 0.0186 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Merphos | U | | 0.0241 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Methyl parathion | U | 4 | 0.0211 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Mevinphos | U | | 0.0239 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Naled | U | | 0.0499 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Phorate | U | 4 | 0.0218 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Ronnel | U | 4 | 0.0155 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Stirophos | U | 4 | 0.0185 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Sulfotep | U | 4 | 0.0102 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| TEPP | U | | 0.163 | 1.04 | 1 | 09/13/2024 19:02 | WG2361107 |
| Tokuthion (Prothothiofos) | U | 4 | 0.0156 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| Trichloronate | U | 4 | 0.0209 | 0.104 | 1 | 09/13/2024 19:02 | WG2361107 |
| *(S) Triphenyl Phosphate* | *118* | | | *36.0-121* | | *09/13/2024 19:02* | WG2361107 |

## Pest c des C b Method 8081

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Aldrin | U | | 0.00391 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Alpha BHC | U | | 0.00382 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Beta BHC | U | | 0.00394 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Delta BHC | U | | 0.00360 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Gamma BHC | U | | 0.00358 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| 4,4-DDD | U | | 0.00385 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| 4,4-DDE | U | | 0.00380 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| 4,4-DDT | U | | 0.00652 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Dieldrin | U | | 0.00358 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |

## Pest c des C b Method 8081

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Endosulfan I | U | | 0.00377 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Endosulfan II | U | | 0.00348 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Endosulfan sulfate | U | | 0.00378 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Endrin | U | | 0.00364 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Endrin aldehyde | U | | 0.00352 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Endrin ketone | U | | 0.00739 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Heptachlor | U | | 0.00445 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Heptachlor epoxide | U | | 0.00352 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Hexachlorobenzene | U | | 0.00360 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Methoxychlor | U | | 0.00503 | 0.0208 | 1 | 09/13/2024 15:11 | WG2361741 |
| Chlordane | U | | 0.107 | 0.312 | 1 | 09/13/2024 15:11 | WG2361741 |
| Toxaphene | U | | 0.129 | 0.416 | 1 | 09/13/2024 15:11 | WG2361741 |
| *(S) Decachlorobiphenyl* | *89.1* | | | *10.0-135* | | *09/13/2024 15:11* | WG2361741 |
| *(S) Tetrachloro-m-xylene* | *89.2* | | | *10.0-139* | | *09/13/2024 15:11* | WG2361741 |

## Sem o at e rgan c Compounds C/MS b Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Acenaphthene | U | | 0.0112 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Acenaphthylene | U | | 0.00975 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Anthracene | U | | 0.0124 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Benzidine | U | | 0.130 | 3.47 | 2 | 09/14/2024 01:40 | WG2361742 |
| Benzo(a)anthracene | U | | 0.0122 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Benzo(b)fluoranthene | U | | 0.0129 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Benzo(k)fluoranthene | U | | 0.0123 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Benzo(g,h,i)perylene | U | | 0.0127 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Benzo(a)pyrene | U | | 0.0129 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Bis(2-chlorethoxy)methane | U | | 0.0208 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Bis(2-chloroethyl)ether | U | | 0.0229 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2,2-Oxybis(1-Chloropropane) | U | | 0.0299 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 4-Bromophenyl-phenylether | U | | 0.0243 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2-Chloronaphthalene | U | | 0.0122 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 4-Chlorophenyl-phenylether | U | | 0.0241 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Chrysene | U | | 0.0137 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Dibenz(a,h)anthracene | U | | 0.0192 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 3,3-Dichlorobenzidine | U | | 0.0256 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2,4-Dinitrotoluene | U | | 0.0199 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2,6-Dinitrotoluene | U | | 0.0227 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Fluoranthene | U | | 0.0125 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Fluorene | U | | 0.0112 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Hexachlorobenzene | U | | 0.0245 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Hexachloro-1,3-butadiene | U | | 0.0233 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Hexachlorocyclopentadiene | U | | 0.0364 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Hexachloroethane | U | | 0.0272 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Indeno(1,2,3-cd)pyrene | U | | 0.0195 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Isophorone | U | | 0.0212 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Naphthalene | U | | 0.0174 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Nitrobenzene | U | | 0.0241 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| n-Nitrosodimethylamine | U | | 0.103 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| n-Nitrosodiphenylamine | U | | 0.0524 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| n-Nitrosodi-n-propylamine | U | | 0.0231 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Phenanthrene | U | | 0.0137 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Benzylbutyl phthalate | U | | 0.0216 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Bis(2-ethylhexyl)phthalate | U | | 0.0877 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Di-n-butyl phthalate | U | | 0.0237 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Diethyl phthalate | U | | 0.0229 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |

## Sem o at e rgan c Compounds C/MS b Method 8270C

| Analyte | Result (dry) mg/kg | Qualifier | MDL (dry) mg/kg | RDL (dry) mg/kg | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|---|
| Dimethyl phthalate | U | | 0.147 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Di-n-octyl phthalate | U | | 0.0468 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Pyrene | U | | 0.0135 | 0.0692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 1,2,4-Trichlorobenzene | U | | 0.0216 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 4-Chloro-3-methylphenol | U | | 0.0224 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2-Chlorophenol | U | | 0.0229 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2,4-Dichlorophenol | U | | 0.0202 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2,4-Dimethylphenol | U | | 0.0181 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 4,6-Dinitro-2-methylphenol | U | | 0.157 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2,4-Dinitrophenol | U | | 0.162 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2-Nitrophenol | U | | 0.0247 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 4-Nitrophenol | U | | 0.0216 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Pentachlorophenol | U | | 0.0186 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| Phenol | U | | 0.0279 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| 2,4,6-Trichlorophenol | U | | 0.0222 | 0.692 | 2 | 09/14/2024 01:40 | WG2361742 |
| *(S) 2-Fluorophenol* | *70.8* | | | *12.0-120* | | *09/14/2024 01:40* | WG2361742 |
| *(S) Phenol-d5* | *65.3* | | | *10.0-120* | | *09/14/2024 01:40* | WG2361742 |
| *(S) Nitrobenzene-d5* | *62.1* | | | *10.0-122* | | *09/14/2024 01:40* | WG2361742 |
| *(S) 2-Fluorobiphenyl* | *67.0* | | | *15.0-120* | | *09/14/2024 01:40* | WG2361742 |
| *(S) 2,4,6-Tribromophenol* | *79.2* | | | *10.0-127* | | *09/14/2024 01:40* | WG2361742 |
| *(S) p-Terphenyl-d14* | *75.2* | | | *10.0-120* | | *09/14/2024 01:40* | WG2361742 |

**Sample Narrative:**

L1776637-01 WG2361742: Dilution due to matrix impact during extraction procedure

## Method an M

M 4119663-1 09/13/24 07:43

| Analyte | MB Result % | MB Qualifier | MB MDL % | MB RDL % |
|---|---|---|---|---|
| Total Solids | 0.000 | | | |

## L1773224-01 r g na Samp e S up cate UP

S L1773224-01 09/13/24 07:43 UP 4119663-3 09/13/24 07:43

| Analyte | Original Result % | DUP Result % | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Total Solids | 86.8 | 87.8 | 1 | 1.15 | | 10 |

## Laborator Contro Samp e LCS

LCS 4119663-2 09/13/24 07:43

| Analyte | Spike Amount % | LCS Result % | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Total Solids | 50.0 | 50.0 | 100 | 90.0-110 | |

## Method an M

M 4119540-1 09/13/24 13:35

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Mercury | U | | 0.0180 | 0.0400 |

## Laborator Contro Samp e LCS

LCS 4119540-2 09/13/24 13:38

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.500 | 0.568 | 114 | 80.0-120 | |

## L1776638-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776638-01 09/13/24 13:40 MS 4119540-4 09/13/24 13:53 MS 4119540-5 09/13/24 13:56

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.514 | 0.0386 | 0.673 | 0.609 | 123 | 111 | 1 | 75.0-125 | | | 10.1 | 20 |

## Method an M

M 4119571-1 09/13/24 12:40

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Arsenic | U | | 0.518 | 2.00 |
| Barium | U | | 0.0852 | 0.500 |
| Cadmium | U | | 0.0471 | 0.500 |
| Chromium | U | | 0.133 | 1.00 |
| Lead | U | | 0.208 | 0.500 |
| Selenium | U | | 0.764 | 2.00 |
| Silver | 0.499 | _ | 0.127 | 1.00 |

## Laborator Contro Samp e LCS

LCS 4119571-2 09/13/24 12:42

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Arsenic | 100 | 88.7 | 88.7 | 80.0-120 | |
| Barium | 100 | 91.2 | 91.2 | 80.0-120 | |
| Cadmium | 100 | 89.7 | 89.7 | 80.0-120 | |
| Chromium | 100 | 89.0 | 89.0 | 80.0-120 | |
| Lead | 100 | 89.3 | 89.3 | 80.0-120 | |
| Selenium | 100 | 89.9 | 89.9 | 80.0-120 | |
| Silver | 20.0 | 18.3 | 91.6 | 80.0-120 | |

## L1776654-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1776654-01 09/13/24 12:44 MS 4119571-5 09/13/24 12:49 MS 4119571-6 09/13/24 12:50

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 102 | 4.71 | 80.0 | 92.9 | 73.9 | 86.6 | 1 | 75.0-125 | 6 | | 15.0 | 20 |
| Barium | 102 | 132 | 201 | 234 | 67.6 | 99.9 | 1 | 75.0-125 | 6 | | 15.1 | 20 |
| Cadmium | 102 | 0.307 | 77.9 | 89.8 | 76.2 | 87.9 | 1 | 75.0-125 | | | 14.2 | 20 |
| Chromium | 102 | 20.3 | 95.2 | 110 | 73.6 | 88.5 | 1 | 75.0-125 | 6 | | 14.7 | 20 |
| Lead | 102 | 10.9 | 89.2 | 104 | 76.9 | 91.1 | 1 | 75.0-125 | | | 15.0 | 20 |
| Selenium | 102 | 2.03 | 76.5 | 88.4 | 73.1 | 84.8 | 1 | 75.0-125 | 6 | | 14.5 | 20 |
| Silver | 20.4 | 0.620 | 16.2 | 18.7 | 76.6 | 88.9 | 1 | 75.0-125 | | | 14.3 | 20 |

## Method an M

M 4119968-3 09/12/24 16:17

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| TPHG C5 - C12 | 1.69 | _ | 0.830 | 2.50 |
| *(S) a,a,a-Trifluorotoluene(FID)* | *105* | | | *77.0-120* |

## Laborator Contro Samp e LCS

LCS 4119968-2 09/12/24 15:08

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TPHG C5 - C12 | 5.00 | 4.23 | 84.6 | 72.0-125 | |
| *(S) a,a,a-Trifluorotoluene(FID)* | | | *106* | *77.0-120* | |

## Method an M

M 4119161-3 09/12/24 11:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| Acetone | U | | 0.0365 | 0.0500 |
| Acrylonitrile | U | | 0.00361 | 0.0125 |
| Benzene | U | | 0.000467 | 0.00100 |
| Bromobenzene | U | | 0.000900 | 0.0125 |
| Bromodichloromethane | U | | 0.000725 | 0.00250 |
| Bromoform | U | | 0.00117 | 0.0250 |
| Bromomethane | U | | 0.00197 | 0.0125 |
| n-Butylbenzene | U | | 0.00525 | 0.0125 |
| sec-Butylbenzene | U | | 0.00288 | 0.0125 |
| tert-Butylbenzene | U | | 0.00195 | 0.00500 |
| Carbon tetrachloride | U | | 0.000898 | 0.00500 |
| Chlorobenzene | U | | 0.000210 | 0.00250 |
| Chlorodibromomethane | U | | 0.000612 | 0.00250 |
| Chloroethane | U | | 0.00170 | 0.00500 |
| Chloroform | U | | 0.00103 | 0.00250 |
| Chloromethane | U | | 0.00435 | 0.0125 |
| 2-Chlorotoluene | U | | 0.000865 | 0.00250 |
| 4-Chlorotoluene | U | | 0.000450 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | U | | 0.00390 | 0.0250 |
| 1,2-Dibromoethane | U | | 0.000648 | 0.00250 |
| Dibromomethane | U | | 0.000750 | 0.00500 |
| 1,2-Dichlorobenzene | U | | 0.000425 | 0.00500 |
| 1,3-Dichlorobenzene | U | | 0.000600 | 0.00500 |
| 1,4-Dichlorobenzene | U | | 0.000700 | 0.00500 |
| Dichlorodifluoromethane | U | | 0.00161 | 0.00500 |
| 1,1-Dichloroethane | U | | 0.000491 | 0.00250 |
| 1,2-Dichloroethane | U | | 0.000649 | 0.00250 |
| 1,1-Dichloroethene | U | | 0.000606 | 0.00250 |
| cis-1,2-Dichloroethene | U | | 0.000734 | 0.00250 |
| trans-1,2-Dichloroethene | U | | 0.00104 | 0.00500 |
| 1,2-Dichloropropane | U | | 0.00142 | 0.00500 |
| 1,1-Dichloropropene | U | | 0.000809 | 0.00250 |
| 1,3-Dichloropropane | U | | 0.000501 | 0.00500 |
| cis-1,3-Dichloropropene | U | | 0.000757 | 0.00250 |
| trans-1,3-Dichloropropene | U | | 0.00114 | 0.00500 |
| 2,2-Dichloropropane | U | | 0.00138 | 0.00250 |
| Di-isopropyl ether | U | | 0.000410 | 0.00100 |
| Ethylbenzene | U | | 0.000737 | 0.00250 |
| Hexachloro-1,3-butadiene | U | | 0.00600 | 0.0250 |
| Isopropylbenzene | U | | 0.000425 | 0.00250 |

## Method an M

M 4119161-3 09/12/24 11:25

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| p-Isopropyltoluene | U | | 0.00255 | 0.00500 |
| 2-Butanone (MEK) | U | | 0.0635 | 0.100 |
| Methylene Chloride | U | | 0.00664 | 0.0250 |
| 4-Methyl-2-pentanone (MIBK) | U | | 0.00228 | 0.0250 |
| Methyl tert-butyl ether | U | | 0.000350 | 0.00100 |
| Naphthalene | U | | 0.00488 | 0.0125 |
| n-Propylbenzene | U | | 0.000950 | 0.00500 |
| Styrene | U | | 0.000229 | 0.0125 |
| 1,1,1,2-Tetrachloroethane | U | | 0.000948 | 0.00250 |
| 1,1,2,2-Tetrachloroethane | U | | 0.000695 | 0.00250 |
| 1,1,2-Trichlorotrifluoroethane | U | | 0.000754 | 0.00250 |
| Tetrachloroethene | U | | 0.000896 | 0.00250 |
| Toluene | U | | 0.00130 | 0.00500 |
| 1,2,3-Trichlorobenzene | U | | 0.00733 | 0.0125 |
| 1,2,4-Trichlorobenzene | U | | 0.00440 | 0.0125 |
| 1,1,1-Trichloroethane | U | | 0.000923 | 0.00250 |
| 1,1,2-Trichloroethane | U | | 0.000597 | 0.00250 |
| Trichloroethene | U | | 0.000584 | 0.00100 |
| Trichlorofluoromethane | U | | 0.000827 | 0.00250 |
| 1,2,3-Trichloropropane | U | | 0.00162 | 0.0125 |
| 1,2,4-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,2,3-Trimethylbenzene | U | | 0.00158 | 0.00500 |
| 1,3,5-Trimethylbenzene | U | | 0.00200 | 0.00500 |
| Vinyl chloride | U | | 0.00116 | 0.00250 |
| Xylenes, Total | U | | 0.000880 | 0.00650 |
| *(S) Toluene-d8* | *104* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *96.6* | | | *67.0-138* |
| *(S) 1,2-Dichloroethane-d4* | *92.3* | | | *70.0-130* |

## Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4119161-1 09/12/24 09:50 LCS 4119161-2 09/12/24 10:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 0.625 | 0.754 | 0.719 | 121 | 115 | 10.0-160 | | | 4.75 | 31 |
| Acrylonitrile | 0.625 | 0.692 | 0.672 | 111 | 108 | 45.0-153 | | | 2.93 | 22 |
| Benzene | 0.125 | 0.122 | 0.118 | 97.6 | 94.4 | 70.0-123 | | | 3.33 | 20 |
| Bromobenzene | 0.125 | 0.112 | 0.116 | 89.6 | 92.8 | 73.0-121 | | | 3.51 | 20 |
| Bromodichloromethane | 0.125 | 0.115 | 0.115 | 92.0 | 92.0 | 73.0-121 | | | 0.000 | 20 |

## Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4119161-1 09/12/24 09:50 LCS 4119161-2 09/12/24 10:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromoform | 0.125 | 0.115 | 0.115 | 92.0 | 92.0 | 64.0-132 | | | 0.000 | 20 |
| Bromomethane | 0.125 | 0.119 | 0.112 | 95.2 | 89.6 | 56.0-147 | | | 6.06 | 20 |
| n-Butylbenzene | 0.125 | 0.123 | 0.126 | 98.4 | 101 | 68.0-135 | | | 2.41 | 20 |
| sec-Butylbenzene | 0.125 | 0.122 | 0.125 | 97.6 | 100 | 74.0-130 | | | 2.43 | 20 |
| tert-Butylbenzene | 0.125 | 0.122 | 0.122 | 97.6 | 97.6 | 75.0-127 | | | 0.000 | 20 |
| Carbon tetrachloride | 0.125 | 0.139 | 0.139 | 111 | 111 | 66.0-128 | | | 0.000 | 20 |
| Chlorobenzene | 0.125 | 0.122 | 0.118 | 97.6 | 94.4 | 76.0-128 | | | 3.33 | 20 |
| Chlorodibromomethane | 0.125 | 0.118 | 0.116 | 94.4 | 92.8 | 74.0-127 | | | 1.71 | 20 |
| Chloroethane | 0.125 | 0.116 | 0.116 | 92.8 | 92.8 | 61.0-134 | | | 0.000 | 20 |
| Chloroform | 0.125 | 0.123 | 0.118 | 98.4 | 94.4 | 72.0-123 | | | 4.15 | 20 |
| Chloromethane | 0.125 | 0.104 | 0.101 | 83.2 | 80.8 | 51.0-138 | | | 2.93 | 20 |
| 2-Chlorotoluene | 0.125 | 0.123 | 0.124 | 98.4 | 99.2 | 75.0-124 | | | 0.810 | 20 |
| 4-Chlorotoluene | 0.125 | 0.112 | 0.114 | 89.6 | 91.2 | 75.0-124 | | | 1.77 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.125 | 0.111 | 0.120 | 88.8 | 96.0 | 59.0-130 | | | 7.79 | 20 |
| 1,2-Dibromoethane | 0.125 | 0.118 | 0.115 | 94.4 | 92.0 | 74.0-128 | | | 2.58 | 20 |
| Dibromomethane | 0.125 | 0.122 | 0.120 | 97.6 | 96.0 | 75.0-122 | | | 1.65 | 20 |
| 1,2-Dichlorobenzene | 0.125 | 0.120 | 0.120 | 96.0 | 96.0 | 76.0-124 | | | 0.000 | 20 |
| 1,3-Dichlorobenzene | 0.125 | 0.119 | 0.120 | 95.2 | 96.0 | 76.0-125 | | | 0.837 | 20 |
| 1,4-Dichlorobenzene | 0.125 | 0.116 | 0.119 | 92.8 | 95.2 | 77.0-121 | | | 2.55 | 20 |
| Dichlorodifluoromethane | 0.125 | 0.154 | 0.143 | 123 | 114 | 43.0-156 | | | 7.41 | 20 |
| 1,1-Dichloroethane | 0.125 | 0.123 | 0.120 | 98.4 | 96.0 | 70.0-127 | | | 2.47 | 20 |
| 1,2-Dichloroethane | 0.125 | 0.118 | 0.117 | 94.4 | 93.6 | 65.0-131 | | | 0.851 | 20 |
| 1,1-Dichloroethene | 0.125 | 0.128 | 0.119 | 102 | 95.2 | 65.0-131 | | | 7.29 | 20 |
| cis-1,2-Dichloroethene | 0.125 | 0.127 | 0.120 | 102 | 96.0 | 73.0-125 | | | 5.67 | 20 |
| trans-1,2-Dichloroethene | 0.125 | 0.126 | 0.120 | 101 | 96.0 | 71.0-125 | | | 4.88 | 20 |
| 1,2-Dichloropropane | 0.125 | 0.116 | 0.113 | 92.8 | 90.4 | 74.0-125 | | | 2.62 | 20 |
| 1,1-Dichloropropene | 0.125 | 0.133 | 0.128 | 106 | 102 | 73.0-125 | | | 3.83 | 20 |
| 1,3-Dichloropropane | 0.125 | 0.116 | 0.115 | 92.8 | 92.0 | 80.0-125 | | | 0.866 | 20 |
| cis-1,3-Dichloropropene | 0.125 | 0.118 | 0.119 | 94.4 | 95.2 | 76.0-127 | | | 0.844 | 20 |
| trans-1,3-Dichloropropene | 0.125 | 0.118 | 0.115 | 94.4 | 92.0 | 73.0-127 | | | 2.58 | 20 |
| 2,2-Dichloropropane | 0.125 | 0.134 | 0.132 | 107 | 106 | 59.0-135 | | | 1.50 | 20 |
| Di-isopropyl ether | 0.125 | 0.115 | 0.111 | 92.0 | 88.8 | 60.0-136 | | | 3.54 | 20 |
| Ethylbenzene | 0.125 | 0.128 | 0.125 | 102 | 100 | 74.0-126 | | | 2.37 | 20 |
| Hexachloro-1,3-butadiene | 0.125 | 0.117 | 0.124 | 93.6 | 99.2 | 57.0-150 | | | 5.81 | 20 |
| Isopropylbenzene | 0.125 | 0.129 | 0.125 | 103 | 100 | 72.0-127 | | | 3.15 | 20 |
| p-Isopropyltoluene | 0.125 | 0.124 | 0.124 | 99.2 | 99.2 | 72.0-133 | | | 0.000 | 20 |
| 2-Butanone (MEK) | 0.625 | 0.568 | 0.540 | 90.9 | 86.4 | 30.0-160 | | | 5.05 | 24 |
| Methylene Chloride | 0.125 | 0.122 | 0.122 | 97.6 | 97.6 | 68.0-123 | | | 0.000 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 0.625 | 0.608 | 0.598 | 97.3 | 95.7 | 56.0-143 | | | 1.66 | 20 |
| Methyl tert-butyl ether | 0.125 | 0.116 | 0.117 | 92.8 | 93.6 | 66.0-132 | | | 0.858 | 20 |

## Laborator Contro Samp e LCS Laborator Contro Samp e up cate LCS

LCS 4119161-1 09/12/24 09:50 LCS 4119161-2 09/12/24 10:09

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.125 | 0.102 | 0.108 | 81.6 | 86.4 | 59.0-130 | | | 5.71 | 20 |
| n-Propylbenzene | 0.125 | 0.127 | 0.131 | 102 | 105 | 74.0-126 | | | 3.10 | 20 |
| Styrene | 0.125 | 0.122 | 0.119 | 97.6 | 95.2 | 72.0-127 | | | 2.49 | 20 |
| 1,1,1,2-Tetrachloroethane | 0.125 | 0.128 | 0.131 | 102 | 105 | 74.0-129 | | | 2.32 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.125 | 0.107 | 0.106 | 85.6 | 84.8 | 68.0-128 | | | 0.939 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.125 | 0.133 | 0.129 | 106 | 103 | 61.0-139 | | | 3.05 | 20 |
| Tetrachloroethene | 0.125 | 0.133 | 0.128 | 106 | 102 | 70.0-136 | | | 3.83 | 20 |
| Toluene | 0.125 | 0.125 | 0.122 | 100 | 97.6 | 75.0-121 | | | 2.43 | 20 |
| 1,2,3-Trichlorobenzene | 0.125 | 0.109 | 0.119 | 87.2 | 95.2 | 59.0-139 | | | 8.77 | 20 |
| 1,2,4-Trichlorobenzene | 0.125 | 0.120 | 0.123 | 96.0 | 98.4 | 62.0-137 | | | 2.47 | 20 |
| 1,1,1-Trichloroethane | 0.125 | 0.134 | 0.129 | 107 | 103 | 69.0-126 | | | 3.80 | 20 |
| 1,1,2-Trichloroethane | 0.125 | 0.114 | 0.114 | 91.2 | 91.2 | 78.0-123 | | | 0.000 | 20 |
| Trichloroethene | 0.125 | 0.144 | 0.139 | 115 | 111 | 76.0-126 | | | 3.53 | 20 |
| Trichlorofluoromethane | 0.125 | 0.127 | 0.123 | 102 | 98.4 | 61.0-142 | | | 3.20 | 20 |
| 1,2,3-Trichloropropane | 0.125 | 0.121 | 0.116 | 96.8 | 92.8 | 67.0-129 | | | 4.22 | 20 |
| 1,2,4-Trimethylbenzene | 0.125 | 0.115 | 0.117 | 92.0 | 93.6 | 70.0-126 | | | 1.72 | 20 |
| 1,2,3-Trimethylbenzene | 0.125 | 0.113 | 0.120 | 90.4 | 96.0 | 74.0-124 | | | 6.01 | 20 |
| 1,3,5-Trimethylbenzene | 0.125 | 0.116 | 0.121 | 92.8 | 96.8 | 73.0-127 | | | 4.22 | 20 |
| Vinyl chloride | 0.125 | 0.130 | 0.122 | 104 | 97.6 | 63.0-134 | | | 6.35 | 20 |
| Xylenes, Total | 0.375 | 0.380 | 0.371 | 101 | 98.9 | 72.0-127 | | | 2.40 | 20 |
| *(S) Toluene-d8* | | | | *101* | *101* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *102* | *100* | *67.0-138* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *99.7* | *99.9* | *70.0-130* | | | | |

## Method an M

M 4119812-2 09/14/24 07:49

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|---|---|---|---|---|
| C12-C22 Hydrocarbons | U | | 0.733 | 4.00 |
| *(S) o-Terphenyl* | *79.4* | | | *18.0-148* |

## Laborator Contro Samp e LCS

LCS 4119812-1 09/13/24 19:10

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 50.0 | 28.2 | 56.4 | 50.0-150 | |
| *(S) o-Terphenyl* | | | *64.4* | *18.0-148* | |

## L1775792-01 r g na Samp e S Matr Sp e MS Matr Sp e up cate MS

S L1775792-01 09/14/24 12:53 MS 4119854-1 09/14/24 13:06 MS 4119854-2 09/14/24 13:19

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C12-C22 Hydrocarbons | 54.5 | 3.17 | 36.2 | 35.9 | 60.6 | 60.3 | 2 | 50.0-150 | | | 0.930 | 20 |
| *(S) o-Terphenyl* | | | | | *59.4* | *61.9* | | *18.0-148* | | | | |