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| RESULTS: Karla Reesor Peace River Area Monitoring Program Committee INVOICE: Office Manager | 403 807 2995 CLIENT SAMPLE ID PRAMP_842-20180727 CANISTER ID 28909 Matrix Ambient Air Priority Normal DESCRIPTION: DATE SAMPLED: 26-Jul-18 7:30 DATE RECEIVED: 30-Jul-18 REPORT CREATED: 22-Aug-18 REPORT NUMBER: 18070454 REPORT REVISED: 31-Aug-18 VERSION: Version 02 |
|---|--|

| Lab ID | Parameter | Qualifier | Result | Units | RDL | Method | Analysis Date |
|--------------|-----------------------|-----------|--------|-------|------|--------|---------------|
| 18070454-001 | 1-Butene | K, T, U | < 0.14 | ppmv | 0.14 | NA-025 | 08-Aug-18 |
| 18070454-001 | Acetylene | K, T, U | < 0.11 | ppmv | 0.11 | NA-025 | 08-Aug-18 |
| 18070454-001 | n-Butane | K, T, U | < 0.3 | ppmv | 0.3 | NA-025 | 08-Aug-18 |
| 18070454-001 | cis-2-Butene | K, T, U | < 0.05 | ppmv | 0.05 | NA-025 | 08-Aug-18 |
| 18070454-001 | Ethane | K, T, U | < 0.1 | ppmv | 0.1 | NA-025 | 08-Aug-18 |
| 18070454-001 | Ethylacetylene | K, T, U | < 0.08 | ppmv | 0.08 | NA-025 | 08-Aug-18 |
| 18070454-001 | Ethylene | K, T, U | < 0.09 | ppmv | 0.09 | NA-025 | 08-Aug-18 |
| 18070454-001 | Isobutane | K, T, U | < 0.1 | ppmv | 0.1 | NA-025 | 08-Aug-18 |
| 18070454-001 | Isobutylene | K, T, U | < 0.1 | ppmv | 0.1 | NA-025 | 08-Aug-18 |
| 18070454-001 | Methane | | 2.1 | ppmv | 0.1 | NA-025 | 08-Aug-18 |
| 18070454-001 | n-Propane | K, T, U | < 0.09 | ppmv | 0.09 | NA-025 | 08-Aug-18 |
| 18070454-001 | Propylene | K, T, U | < 0.1 | ppmv | 0.1 | NA-025 | 08-Aug-18 |
| 18070454-001 | Propyne | K, T, U | < 0.1 | ppmv | 0.1 | NA-025 | 08-Aug-18 |
| 18070454-001 | trans-2-Butene | K, T, U | < 0.12 | ppmv | 0.12 | NA-025 | 08-Aug-18 |
| 18070454-001 | 2,5-Dimethylthiophene | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 30-Jul-18 |
| 18070454-001 | 2-Ethylthiophene | K, T, U | < 0.2 | ppbv | 0.2 | NA-024 | 30-Jul-18 |
| 18070454-001 | 2-Methylthiophene | K, T, U | < 0.2 | ppbv | 0.2 | NA-024 | 30-Jul-18 |
| 18070454-001 | 3-Methylthiophene | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 30-Jul-18 |

Report certified by: Rebecca Holgate, Account Coordinator

On behalf of: PJ Pretorius, Manager, Analysis and Testing Services

Date: Friday, August 31, 2018

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

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|-------------------------|--------------------|------------------------|---------------------|----------------------------------|
| CLIENT SAMPLE ID | CANISTER ID | Matrix | DATE SAMPLED | |
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| Lab ID | Parameter | Qualifier | Result | Units | RDL | Method | Analysis Date |
|--------------|---------------------------|-----------|--------|-------|------|--------|---------------|
| 18070454-001 | Butyl mercaptan | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 30-Jul-18 |
| 18070454-001 | Carbon disulphide | K, T, U | < 0.2 | ppbv | 0.2 | NA-024 | 30-Jul-18 |
| 18070454-001 | Carbonyl sulphide | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 30-Jul-18 |
| 18070454-001 | Dimethyl disulphide | K, T, U | < 0.2 | ppbv | 0.2 | NA-024 | 30-Jul-18 |
| 18070454-001 | Dimethyl sulphide | K, T, U | < 0.2 | ppbv | 0.2 | NA-024 | 30-Jul-18 |
| 18070454-001 | Ethyl mercaptan | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 30-Jul-18 |
| 18070454-001 | Ethyl sulphide | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 30-Jul-18 |
| 18070454-001 | Hydrogen sulphide | K, T, U | < 0.1 | ppbv | 0.1 | NA-024 | 30-Jul-18 |
| 18070454-001 | Isobutyl mercaptan | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 30-Jul-18 |
| 18070454-001 | Isopropyl mercaptan | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 30-Jul-18 |
| 18070454-001 | Methyl mercaptan | K, T, U | < 0.2 | ppbv | 0.2 | NA-024 | 30-Jul-18 |
| 18070454-001 | Pentyl mercaptan | K, T, U | < 0.4 | ppbv | 0.4 | NA-024 | 30-Jul-18 |
| 18070454-001 | Propyl mercaptan | K, T, U | < 0.4 | ppbv | 0.4 | NA-024 | 30-Jul-18 |
| 18070454-001 | tert-Butyl mercaptan | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 30-Jul-18 |
| 18070454-001 | Thiophene | K, T, U | < 0.2 | ppbv | 0.2 | NA-024 | 30-Jul-18 |
| 18070454-001 | 1,1,1-Trichloroethane | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,1,2,2-Tetrachloroethane | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,1,2-Trichloroethane | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,1-Dichloroethane | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,1-Dichloroethylene | K, T, U | < 0.07 | ppbv | 0.07 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,2,3-Trimethylbenzene | | 0.78 | ppbv | 0.09 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,2,4-Trichlorobenzene | K, T, U | < 1.4 | ppbv | 1.4 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,2,4-Trimethylbenzene | | 1.79 | ppbv | 0.09 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,2-Dibromoethane | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,2-Dichlorobenzene | K, T, U | < 0.05 | ppbv | 0.05 | AC-058 | 15-Aug-18 |

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On behalf of: PJ Pretorius, Manager, Analysis and Testing Services

Date: Friday, August 31, 2018

Inquiries: (780) 632 8455

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| 18070454-001 | 1,2-Dichloroethane | I | 0.08 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,2-Dichloropropane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,3,5-Trimethylbenzene | | 0.72 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,3-Butadiene | I | 0.13 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,3-Dichlorobenzene | K, T, U | < 0.5 | ppbv | 0.5 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,4-Dichlorobenzene | K, T, U | < 0.7 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1,4-Dioxane | K, T, U | < 0.7 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1-Butene/isobutylene | | 1.12 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1-Hexene/2-Methyl-1-pentene | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 1-Pentene | | 0.11 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 2,2,4-Trimethylpentane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 2,2-Dimethylbutane | | 0.04 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 2,3,4-Trimethylpentane | | 0.11 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 2,3-Dimethylbutane | | 0.22 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 2,3-Dimethylpentane | | 0.12 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 2,4-Dimethylpentane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 2-Methylheptane | | 0.21 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 2-Methylhexane | | 0.14 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 2-Methylpentane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | 3-Methylheptane | | 0.20 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 3-Methylhexane | | 0.06 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | 3-Methylpentane | | 0.11 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Acetone | | 8.3 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | Acrolein | | 0.6 | ppbv | 0.5 | AC-058 | 15-Aug-18 |
| 18070454-001 | Benzene | | 0.60 | ppbv | 0.02 | AC-058 | 15-Aug-18 |

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|--------------|--------------------------|-----------|--------|-------|------|--------|---------------|
| 18070454-001 | Benzyl chloride | K, T, U | < 0.7 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | Bromodichloromethane | | 0.12 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Bromoform | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Bromomethane | I | 0.07 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Carbon disulfide | I | 0.14 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Carbon tetrachloride | I | 0.16 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Chlorobenzene | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Chloroethane | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Chloroform | I | 0.05 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Chloromethane | | 0.74 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | cis-1,2-Dichloroethene | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | cis-1,3-Dichloropropene | K, T, U | < 0.07 | ppbv | 0.07 | AC-058 | 15-Aug-18 |
| 18070454-001 | cis-2-Butene | | 0.10 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | cis-2-Pentene | | 0.12 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Cyclohexane | | 0.15 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Cyclopentane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Dibromochloromethane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Ethanol | | 5.5 | ppbv | 0.5 | AC-058 | 15-Aug-18 |
| 18070454-001 | Ethyl acetate | K, T, U | < 0.7 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | Ethylbenzene | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Freon-11 | I | 0.39 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Freon-113 | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Freon-114 | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Freon-12 | | 0.59 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Hexachloro-1,3-butadiene | K, T, U | < 0.89 | ppbv | 0.89 | AC-058 | 15-Aug-18 |

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| Lab ID | Parameter | Qualifier | Result | Units | RDL | Method | Analysis Date |
|--------------|-------------------------|-----------|--------|-------|------|--------|---------------|
| 18070454-001 | Isobutane | | 0.57 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Isopentane | | 0.54 | ppbv | 0.05 | AC-058 | 15-Aug-18 |
| 18070454-001 | Isoprene | | 2.78 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Isopropyl alcohol | | 1.2 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | Isopropylbenzene | | 0.24 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | m,p-Xylene | | 0.41 | ppbv | 0.05 | AC-058 | 15-Aug-18 |
| 18070454-001 | m-Diethylbenzene | I | 0.46 | ppbv | 0.07 | AC-058 | 15-Aug-18 |
| 18070454-001 | m-Ethyltoluene | | 1.39 | ppbv | 0.14 | AC-058 | 15-Aug-18 |
| 18070454-001 | Methyl butyl ketone | | 1.49 | ppbv | 0.89 | AC-058 | 15-Aug-18 |
| 18070454-001 | Methyl ethyl ketone | | 0.7 | ppbv | 0.5 | AC-058 | 15-Aug-18 |
| 18070454-001 | Methyl isobutyl ketone | K, T, U | < 0.7 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | Methyl methacrylate | K, T, U | < 0.12 | ppbv | 0.12 | AC-058 | 15-Aug-18 |
| 18070454-001 | Methyl tert butyl ether | I | 0.17 | ppbv | 0.05 | AC-058 | 15-Aug-18 |
| 18070454-001 | Methylcyclohexane | | 0.17 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | Methylcyclopentane | | 0.12 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Methylene chloride | K, T, U | < 0.5 | ppbv | 0.5 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Butane | | 0.81 | ppbv | 0.05 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Decane | | 0.33 | ppbv | 0.11 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Dodecane | | 2.8 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Heptane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Hexane | | 0.30 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Octane | | 0.19 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Pentane | | 0.3 | ppbv | 0.2 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Propylbenzene | | 0.72 | ppbv | 0.09 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Undecane | K, T, U | < 0.9 | ppbv | 0.9 | AC-058 | 15-Aug-18 |

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|--------------|-----------------------------|-----------|--------|-------|------|--------|---------------|
| 18070454-001 | Naphthalene | K, T, U | < 0.9 | ppbv | 0.9 | AC-058 | 15-Aug-18 |
| 18070454-001 | n-Nonane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | o-Ethyltoluene | | 0.64 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | o-Xylene | | 0.40 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | p-Diethylbenzene | | 0.56 | ppbv | 0.07 | AC-058 | 15-Aug-18 |
| 18070454-001 | p-Ethyltoluene | I | 0.47 | ppbv | 0.12 | AC-058 | 15-Aug-18 |
| 18070454-001 | Styrene | K, T, U | < 0.07 | ppbv | 0.07 | AC-058 | 15-Aug-18 |
| 18070454-001 | Tetrachloroethylene | K, T, U | < 0.07 | ppbv | 0.07 | AC-058 | 15-Aug-18 |
| 18070454-001 | Tetrahydrofuran | K, T, U | < 0.7 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | Toluene | | 0.37 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | trans-1,2-Dichloroethylene | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | trans-1,3-Dichloropropylene | K, T, U | < 0.07 | ppbv | 0.07 | AC-058 | 15-Aug-18 |
| 18070454-001 | trans-2-Butene | | 0.10 | ppbv | 0.02 | AC-058 | 15-Aug-18 |
| 18070454-001 | trans-2-Pentene | | 0.07 | ppbv | 0.04 | AC-058 | 15-Aug-18 |
| 18070454-001 | Trichloroethylene | K, T, U | < 0.07 | ppbv | 0.07 | AC-058 | 15-Aug-18 |
| 18070454-001 | Vinyl acetate | K, T, U | < 0.7 | ppbv | 0.7 | AC-058 | 15-Aug-18 |
| 18070454-001 | Vinyl chloride | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 15-Aug-18 |

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Revision History

| Order ID | Ver | Date | Reason |
|----------|-----|-----------|---|
| 18070454 | 01 | 22-Aug-18 | Report created |
| 18070454 | 02 | 31-Aug-18 | Report revised to correct the sample collection date. |

Methods

| Method | Description |
|---------------|---|
| AC-058 | Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry |
| NA-024 | Analysis for Reduced Sulfur Compounds in Air Samples |
| NA-025 | Determination of Light Hydrocarbons (C1C4) in Ambient Air by Gas Chromatography Flame Ionization Detector |

Qualifiers

Data Qualifier Translation

| | |
|----|---|
| B | Blank contamination; Analyte detected above the method reporting limit in an associated blank |
| I | The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit |
| J1 | Reported value is estimated; Surrogate recoveries limits were exceeded |
| J2 | Reported value is estimated; No known QC criteria for this component |
| J3 | Reported value is estimated; The value failed to meet QC criteria for either precision or accuracy |
| J4 | Reported value is estimated; The sample matrix interfered with the analysis |
| K | Off-scale low. Actual value is known to be less than the value given |
| L | Off-scale high. Actual value is known to be greater than value given |
| N | Non-target analyte; Tentatively identified compound (using mass spectroscopy) |
| Q | Sample held beyond the accepted holding time |
| R | Rejected data; Not suitable for the projects intended use |
| T | Value reported is less than the laboratory method detection limit |
| U | Compound was analyzed for but not detected |
| V | Analyte was detected in both the sample and the associated method blank |



PO Bag 4000
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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Order Comments

18070454

Send results to pramptech@prampairshed.ca.



PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Sample Comments



PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Result Comments

Note: Results relate only to items tested