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 Vegreville, Alberta
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 (780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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|---|--|--|---|
| RESULTS: Office Manager Peace River Area Monitoring Program Committee | CLIENT SAMPLE ID PRAMP_986_Blank | | Matrix Ambient Air |
| | CANISTER ID: 32220 PRIORITY: Normal DESCRIPTION: NMHC Blank | DATE SAMPLED: 14-Nov-20 REPORT CREATED: 26-Nov-20 | DATE RECEIVED: 19-Nov-20 REPORT NUMBER: 20110156 VERSION: Version 01 |
| INVOICE: Karla Reesor | 403 807 2995 | | |

| Lab ID | Parameter | Qualifier | Result Units | RDL | Method | Analysis Date |
|--------------|-----------------------|-----------|--------------|------|--------|---------------|
| 20110156-002 | 1-Butene | K, T, U | < 0.10 ppmv | 0.10 | NA-025 | 20-Nov-20 |
| 20110156-002 | Acetylene | K, T, U | < 0.08 ppmv | 0.08 | NA-025 | 20-Nov-20 |
| 20110156-002 | n-Butane | K, T, U | < 0.2 ppmv | 0.2 | NA-025 | 20-Nov-20 |
| 20110156-002 | cis-2-Butene | K, T, U | < 0.04 ppmv | 0.04 | NA-025 | 20-Nov-20 |
| 20110156-002 | Ethane | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-002 | Ethylacetylene | K, T, U | < 0.06 ppmv | 0.06 | NA-025 | 20-Nov-20 |
| 20110156-002 | Ethylene | K, T, U | < 0.07 ppmv | 0.07 | NA-025 | 20-Nov-20 |
| 20110156-002 | Isobutane | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-002 | Isobutylene | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-002 | Methane | | 0.4 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-002 | n-Propane | K, T, U | < 0.07 ppmv | 0.07 | NA-025 | 20-Nov-20 |
| 20110156-002 | Propylene | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-002 | Propyne | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-002 | trans-2-Butene | K, T, U | < 0.09 ppmv | 0.09 | NA-025 | 20-Nov-20 |
| 20110156-002 | 2,5-Dimethylthiophene | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-002 | 2-Ethylthiophene | K, T, U | < 0.2 ppbv | 0.2 | NA-024 | 20-Nov-20 |
| 20110156-002 | 2-Methylthiophene | K, T, U | < 0.2 ppbv | 0.2 | NA-024 | 20-Nov-20 |
| 20110156-002 | 3-Methylthiophene | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |

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|-------------------------|------------------------|-----------------|---------------------|
| CLIENT SAMPLE ID | CANISTER ID | Matrix | DATE SAMPLED |
| PRAMP_986_Blank | 32220 | Ambient Air | 14-Nov-20 |
| DESCRIPTION: | NMHC Blank | | |
| REPORT NUMBER: | REPORT CREATED: | VERSION: | Version 01 |
| 20110156 | 26-Nov-20 | | |

| Lab ID | Parameter | Qualifier | Result Units | RDL | Method | Analysis Date |
|--------------|---------------------------|-----------|--------------|------|--------|---------------|
| 20110156-002 | Butyl mercaptan | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-002 | Carbon disulphide | K, T, U | < 0.2 ppbv | 0.2 | NA-024 | 20-Nov-20 |
| 20110156-002 | Carbonyl sulphide | | 2.0 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-002 | Dimethyl disulphide | K, T, U | < 0.2 ppbv | 0.2 | NA-024 | 20-Nov-20 |
| 20110156-002 | Dimethyl sulphide | K, T, U | < 0.2 ppbv | 0.2 | NA-024 | 20-Nov-20 |
| 20110156-002 | Ethyl mercaptan | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-002 | Ethyl sulphide | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-002 | Hydrogen sulphide | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-002 | Isobutyl mercaptan | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-002 | Isopropyl mercaptan | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-002 | Methyl mercaptan | K, T, U | < 0.2 ppbv | 0.2 | NA-024 | 20-Nov-20 |
| 20110156-002 | Pentyl mercaptan | K, T, U | < 0.4 ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-002 | Propyl mercaptan | K, T, U | < 0.4 ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-002 | tert-Butyl mercaptan | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-002 | Thiophene | K, T, U | < 0.2 ppbv | 0.2 | NA-024 | 20-Nov-20 |
| 20110156-002 | 1,1,1-Trichloroethane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,1,2,2-Tetrachloroethane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,1,2-Trichloroethane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,1-Dichloroethane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,1-Dichloroethylene | K, T, U | < 0.04 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,2,3-Trimethylbenzene | K, T, U | < 0.05 ppbv | 0.05 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,2,4-Trichlorobenzene | K, T, U | < 0.8 ppbv | 0.8 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,2,4-Trimethylbenzene | K, T, U | < 0.05 ppbv | 0.05 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,2-Dibromoethane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,2-Dichlorobenzene | K, T, U | < 0.03 ppbv | 0.03 | AC-058 | 19-Nov-20 |

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: November 26, 2020

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

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|-------------------------|-----------------|------------------------|-----------|-----------------|-------------|---------------------|-----------|
| CLIENT SAMPLE ID | PRAMP_986_Blank | CANISTER ID | 32220 | Matrix | Ambient Air | DATE SAMPLED | 14-Nov-20 |
| DESCRIPTION: | NMHC Blank | | | | | | |
| REPORT NUMBER: | 20110156 | REPORT CREATED: | 26-Nov-20 | VERSION: | Version 01 | | |

| Lab ID | Parameter | Qualifier | Result | Units | RDL | Method | Analysis Date |
|--------------|-----------------------------|-----------|--------|-------|------|--------|---------------|
| 20110156-002 | 1,2-Dichloroethane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,2-Dichloropropane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,3,5-Trimethylbenzene | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,3-Butadiene | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,3-Dichlorobenzene | K, T, U | < 0.3 | ppbv | 0.3 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,4-Dichlorobenzene | K, T, U | < 0.4 | ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1,4-Dioxane | K, T, U | < 0.4 | ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1-Butene/Isobutylene | | 1.06 | ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1-Hexene/2-Methyl-1-pentene | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 1-Pentene | | 0.17 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 2,2,4-Trimethylpentane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 2,2-Dimethylbutane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 2,3,4-Trimethylpentane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 2,3-Dimethylbutane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 2,3-Dimethylpentane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 2,4-Dimethylpentane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 2-Methylheptane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 2-Methylhexane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 2-Methylpentane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | 3-Methylheptane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 3-Methylhexane | K, T, U | < 0.02 | ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | 3-Methylpentane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Acetone | | 6.0 | ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | Acrolein | K, T, U | < 0.3 | ppbv | 0.3 | AC-058 | 19-Nov-20 |
| 20110156-002 | Benzene | | 0.13 | ppbv | 0.01 | AC-058 | 19-Nov-20 |

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|-------------------------|------------------------|-----------------|---------------------|
| CLIENT SAMPLE ID | CANISTER ID | Matrix | DATE SAMPLED |
| PRAMP_986_Blank | 32220 | Ambient Air | 14-Nov-20 |
| DESCRIPTION: | NMHC Blank | | |
| REPORT NUMBER: | REPORT CREATED: | VERSION: | Version 01 |
| 20110156 | 26-Nov-20 | | |

| Lab ID | Parameter | Qualifier | Result Units | RDL | Method | Analysis Date |
|--------------|--------------------------|-----------|--------------|------|--------|---------------|
| 20110156-002 | Benzyl chloride | K, T, U | < 0.4 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | Bromodichloromethane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Bromoform | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Bromomethane | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Carbon disulfide | I | 0.11 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Carbon tetrachloride | I | 0.06 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Chlorobenzene | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Chloroethane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Chloroform | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Chloromethane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | cis-1,2-Dichloroethene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | cis-1,3-Dichloropropene | K, T, U | < 0.04 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-002 | cis-2-Butene | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | cis-2-Pentene | | 0.31 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Cyclohexane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Cyclopentane | | 0.37 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Dibromochloromethane | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Ethanol | | 11.5 ppbv | 0.3 | AC-058 | 19-Nov-20 |
| 20110156-002 | Ethyl acetate | K, T, U | < 0.4 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | Ethylbenzene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Freon-11 | I | 0.13 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Freon-113 | I | 0.07 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Freon-114 | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Freon-12 | I | 0.04 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Hexachloro-1,3-butadiene | K, T, U | < 0.50 ppbv | 0.50 | AC-058 | 19-Nov-20 |

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| CLIENT SAMPLE ID | CANISTER ID | Matrix | DATE SAMPLED |
| PRAMP_986_Blank | 32220 | Ambient Air | 14-Nov-20 |
| DESCRIPTION: | NMHC Blank | | |
| REPORT NUMBER: | REPORT CREATED: | VERSION: | Version 01 |
| 20110156 | 26-Nov-20 | | |

| Lab ID | Parameter | Qualifier | Result Units | RDL | Method | Analysis Date |
|--------------|-------------------------|-----------|--------------|------|--------|---------------|
| 20110156-002 | Isobutane | | 0.95 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Isopentane | K, T, U | < 0.03 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-002 | Isoprene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Isopropyl alcohol | | 0.8 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | Isopropylbenzene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | m,p-Xylene | K, T, U | < 0.03 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-002 | m-Diethylbenzene | K, T, U | < 0.04 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-002 | m-Ethyltoluene | K, T, U | < 0.08 ppbv | 0.08 | AC-058 | 19-Nov-20 |
| 20110156-002 | Methyl butyl ketone | K, T, U | < 0.50 ppbv | 0.50 | AC-058 | 19-Nov-20 |
| 20110156-002 | Methyl ethyl ketone | K, T, U | < 0.3 ppbv | 0.3 | AC-058 | 19-Nov-20 |
| 20110156-002 | Methyl isobutyl ketone | K, T, U | < 0.4 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | Methyl methacrylate | K, T, U | < 0.07 ppbv | 0.07 | AC-058 | 19-Nov-20 |
| 20110156-002 | Methyl tert butyl ether | K, T, U | < 0.03 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-002 | Methylcyclohexane | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | Methylcyclopentane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Methylene chloride | K, T, U | < 0.3 ppbv | 0.3 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Butane | | 0.12 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Decane | K, T, U | < 0.06 ppbv | 0.06 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Dodecane | K, T, U | < 0.4 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Heptane | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Hexane | | 0.18 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Octane | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Pentane | | 0.3 ppbv | 0.1 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Propylbenzene | K, T, U | < 0.05 ppbv | 0.05 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Undecane | K, T, U | < 0.5 ppbv | 0.5 | AC-058 | 19-Nov-20 |

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Date: November 26, 2020

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|-------------------------|------------------------|-----------------|---------------------|
| CLIENT SAMPLE ID | CANISTER ID | Matrix | DATE SAMPLED |
| PRAMP_986_Blank | 32220 | Ambient Air | 14-Nov-20 |
| DESCRIPTION: | NMHC Blank | | |
| REPORT NUMBER: | REPORT CREATED: | VERSION: | Version 01 |
| 20110156 | 26-Nov-20 | | |

| Lab ID | Parameter | Qualifier | Result Units | RDL | Method | Analysis Date |
|--------------|-----------------------------|-----------|--------------|------|--------|---------------|
| 20110156-002 | Naphthalene | K, T, U | < 0.5 ppbv | 0.5 | AC-058 | 19-Nov-20 |
| 20110156-002 | n-Nonane | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | o-Ethyltoluene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | o-Xylene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | p-Diethylbenzene | K, T, U | < 0.04 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-002 | p-Ethyltoluene | K, T, U | < 0.07 ppbv | 0.07 | AC-058 | 19-Nov-20 |
| 20110156-002 | Styrene | K, T, U | < 0.04 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-002 | Tetrachloroethylene | K, T, U | < 0.04 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-002 | Tetrahydrofuran | K, T, U | < 0.4 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | Toluene | | 0.15 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | trans-1,2-Dichloroethylene | | 3.93 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | trans-1,3-Dichloropropylene | K, T, U | < 0.04 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-002 | trans-2-Butene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-002 | trans-2-Pentene | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |
| 20110156-002 | Trichloroethylene | K, T, U | < 0.04 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-002 | Vinyl acetate | K, T, U | < 0.4 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-002 | Vinyl chloride | K, T, U | < 0.02 ppbv | 0.02 | AC-058 | 19-Nov-20 |

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|-------------------------|------------------------|-----------------|---------------------|------------|
| CLIENT SAMPLE ID | CANISTER ID | Matrix | DATE SAMPLED | |
| PRAMP_986-20201114 | 32274 | Ambient Air | 14-Nov-20 | 21:25 |
| DESCRIPTION: | NMHC Trigger | | | |
| REPORT NUMBER: | REPORT CREATED: | VERSION: | | Version 01 |
| 20110156 | 26-Nov-20 | | | |

| Lab ID | Parameter | Qualifier | Result Units | RDL | Method | Analysis Date |
|--------------|-----------------------|-----------|--------------|------|--------|---------------|
| 20110156-001 | 1-Butene | K, T, U | < 0.14 ppmv | 0.14 | NA-025 | 20-Nov-20 |
| 20110156-001 | Acetylene | K, T, U | < 0.11 ppmv | 0.11 | NA-025 | 20-Nov-20 |
| 20110156-001 | n-Butane | K, T, U | < 0.3 ppmv | 0.3 | NA-025 | 20-Nov-20 |
| 20110156-001 | cis-2-Butene | K, T, U | < 0.06 ppmv | 0.06 | NA-025 | 20-Nov-20 |
| 20110156-001 | Ethane | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-001 | Ethylacetylene | K, T, U | < 0.08 ppmv | 0.08 | NA-025 | 20-Nov-20 |
| 20110156-001 | Ethylene | K, T, U | < 0.10 ppmv | 0.10 | NA-025 | 20-Nov-20 |
| 20110156-001 | Isobutane | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-001 | Isobutylene | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-001 | Methane | | 2.5 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-001 | n-Propane | K, T, U | < 0.10 ppmv | 0.10 | NA-025 | 20-Nov-20 |
| 20110156-001 | Propylene | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-001 | Propyne | K, T, U | < 0.1 ppmv | 0.1 | NA-025 | 20-Nov-20 |
| 20110156-001 | trans-2-Butene | K, T, U | < 0.13 ppmv | 0.13 | NA-025 | 20-Nov-20 |
| 20110156-001 | 2,5-Dimethylthiophene | K, T, U | < 0.4 ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-001 | 2-Ethylthiophene | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-001 | 2-Methylthiophene | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-001 | 3-Methylthiophene | K, T, U | < 0.4 ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-001 | Butyl mercaptan | K, T, U | < 0.4 ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-001 | Carbon disulphide | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-001 | Carbonyl sulphide | K, T, U | < 0.4 ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-001 | Dimethyl disulphide | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-001 | Dimethyl sulphide | K, T, U | < 0.3 ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-001 | Ethyl mercaptan | K, T, U | < 0.4 ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-001 | Ethyl sulphide | K, T, U | < 0.4 ppbv | 0.4 | NA-024 | 20-Nov-20 |

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: November 26, 2020

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|-------------------------|------------------------|-----------------|---------------------|
| CLIENT SAMPLE ID | CANISTER ID | Matrix | DATE SAMPLED |
| PRAMP_986-20201114 | 32274 | Ambient Air | 14-Nov-20 21:25 |
| DESCRIPTION: | NMHC Trigger | | |
| REPORT NUMBER: | REPORT CREATED: | VERSION: | Version 01 |
| 20110156 | 26-Nov-20 | | |

| Lab ID | Parameter | Qualifier | Result | Units | RDL | Method | Analysis Date |
|--------------|---------------------------|-----------|--------|-------|------|--------|---------------|
| 20110156-001 | Hydrogen sulphide | K, T, U | < 0.4 | ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-001 | Isobutyl mercaptan | K, T, U | < 0.4 | ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-001 | Isopropyl mercaptan | K, T, U | < 0.4 | ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-001 | Methyl mercaptan | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-001 | Pentyl mercaptan | K, T, U | < 0.6 | ppbv | 0.6 | NA-024 | 20-Nov-20 |
| 20110156-001 | Propyl mercaptan | K, T, U | < 0.6 | ppbv | 0.6 | NA-024 | 20-Nov-20 |
| 20110156-001 | tert-Butyl mercaptan | K, T, U | < 0.4 | ppbv | 0.4 | NA-024 | 20-Nov-20 |
| 20110156-001 | Thiophene | K, T, U | < 0.3 | ppbv | 0.3 | NA-024 | 20-Nov-20 |
| 20110156-001 | 1,1,1-Trichloroethane | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,1,2,2-Tetrachloroethane | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,1,2-Trichloroethane | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,1-Dichloroethane | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,1-Dichloroethylene | K, T, U | < 0.06 | ppbv | 0.06 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,2,3-Trimethylbenzene | K, T, U | < 0.07 | ppbv | 0.07 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,2,4-Trichlorobenzene | K, T, U | < 1.1 | ppbv | 1.1 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,2,4-Trimethylbenzene | K, T, U | < 0.07 | ppbv | 0.07 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,2-Dibromoethane | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,2-Dichlorobenzene | K, T, U | < 0.04 | ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,2-Dichloroethane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,2-Dichloropropane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,3,5-Trimethylbenzene | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,3-Butadiene | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,3-Dichlorobenzene | K, T, U | < 0.4 | ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,4-Dichlorobenzene | K, T, U | < 0.6 | ppbv | 0.6 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1,4-Dioxane | K, T, U | < 0.6 | ppbv | 0.6 | AC-058 | 19-Nov-20 |

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|--------------|-----------------------------|-----------|--------|-------|------|--------|---------------|
| 20110156-001 | 1-Butene/Isobutylene | | 2.10 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1-Hexene/2-Methyl-1-pentene | I | 0.28 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 1-Pentene | | 1.35 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 2,2,4-Trimethylpentane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 2,2-Dimethylbutane | | 0.33 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 2,3,4-Trimethylpentane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 2,3-Dimethylbutane | | 0.52 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 2,3-Dimethylpentane | | 0.77 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 2,4-Dimethylpentane | | 0.26 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 2-Methylheptane | | 1.62 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 2-Methylhexane | | 1.62 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 2-Methylpentane | | 1.35 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | 3-Methylheptane | | 0.53 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 3-Methylhexane | | 2.63 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | 3-Methylpentane | | 1.17 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Acetone | | 6.9 | ppbv | 0.6 | AC-058 | 19-Nov-20 |
| 20110156-001 | Acrolein | | 0.8 | ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-001 | Benzene | | 1.25 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Benzyl chloride | K, T, U | < 0.6 | ppbv | 0.6 | AC-058 | 19-Nov-20 |
| 20110156-001 | Bromodichloromethane | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Bromoform | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Bromomethane | K, T, U | < 0.01 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Carbon disulfide | I | 0.35 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Carbon tetrachloride | I | 0.13 | ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Chlorobenzene | K, T, U | < 0.03 | ppbv | 0.03 | AC-058 | 19-Nov-20 |

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|--------------|--------------------------|-----------|--------------|------|--------|---------------|
| 20110156-001 | Chloroethane | I | 0.30 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Chloroform | K, T, U | < 0.03 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Chloromethane | | 1.09 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | cis-1,2-Dichloroethene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | cis-1,3-Dichloropropene | K, T, U | < 0.06 ppbv | 0.06 | AC-058 | 19-Nov-20 |
| 20110156-001 | cis-2-Butene | K, T, U | < 0.03 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | cis-2-Pentene | | 0.26 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Cyclohexane | | 11.8 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Cyclopentane | | 0.60 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Dibromochloromethane | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Ethanol | | 9.5 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-001 | Ethyl acetate | | 0.7 ppbv | 0.6 | AC-058 | 19-Nov-20 |
| 20110156-001 | Ethylbenzene | | 0.29 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Freon-11 | I | 0.36 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Freon-113 | I | 0.17 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Freon-114 | K, T, U | < 0.03 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Freon-12 | | 0.50 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Hexachloro-1,3-butadiene | K, T, U | < 0.70 ppbv | 0.70 | AC-058 | 19-Nov-20 |
| 20110156-001 | Isobutane | | 1.85 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Isopentane | | 4.94 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-001 | Isoprene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Isopropyl alcohol | | 1.3 ppbv | 0.6 | AC-058 | 19-Nov-20 |
| 20110156-001 | Isopropylbenzene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | m,p-Xylene | | 0.62 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-001 | m-Diethylbenzene | K, T, U | < 0.06 ppbv | 0.06 | AC-058 | 19-Nov-20 |

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|--------------|-------------------------|-----------|--------------|------|--------|---------------|
| 20110156-001 | m-Ethyltoluene | K, T, U | < 0.11 ppbv | 0.11 | AC-058 | 19-Nov-20 |
| 20110156-001 | Methyl butyl ketone | K, T, U | < 0.70 ppbv | 0.70 | AC-058 | 19-Nov-20 |
| 20110156-001 | Methyl ethyl ketone | K, T, U | < 0.4 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-001 | Methyl isobutyl ketone | K, T, U | < 0.6 ppbv | 0.6 | AC-058 | 19-Nov-20 |
| 20110156-001 | Methyl methacrylate | K, T, U | < 0.10 ppbv | 0.10 | AC-058 | 19-Nov-20 |
| 20110156-001 | Methyl tert butyl ether | K, T, U | < 0.04 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-001 | Methylcyclohexane | | 6.73 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | Methylcyclopentane | | 2.46 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Methylene chloride | K, T, U | < 0.4 ppbv | 0.4 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Butane | | 1.61 ppbv | 0.04 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Decane | K, T, U | < 0.08 ppbv | 0.08 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Dodecane | K, T, U | < 0.6 ppbv | 0.6 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Heptane | | 6.10 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Hexane | | 3.71 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Octane | | 1.42 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Pentane | | 5.2 ppbv | 0.1 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Propylbenzene | K, T, U | < 0.07 ppbv | 0.07 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Undecane | K, T, U | < 0.7 ppbv | 0.7 | AC-058 | 19-Nov-20 |
| 20110156-001 | Naphthalene | K, T, U | < 0.7 ppbv | 0.7 | AC-058 | 19-Nov-20 |
| 20110156-001 | n-Nonane | | 0.21 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | o-Ethyltoluene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | o-Xylene | | 0.34 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | p-Diethylbenzene | K, T, U | < 0.06 ppbv | 0.06 | AC-058 | 19-Nov-20 |
| 20110156-001 | p-Ethyltoluene | K, T, U | < 0.10 ppbv | 0.10 | AC-058 | 19-Nov-20 |
| 20110156-001 | Styrene | K, T, U | < 0.06 ppbv | 0.06 | AC-058 | 19-Nov-20 |

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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| CLIENT SAMPLE ID | CANISTER ID | Matrix | DATE SAMPLED |
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|--------------|-----------------------------|-----------|--------------|------|--------|---------------|
| 20110156-001 | Tetrachloroethylene | K, T, U | < 0.06 ppbv | 0.06 | AC-058 | 19-Nov-20 |
| 20110156-001 | Tetrahydrofuran | K, T, U | < 0.6 ppbv | 0.6 | AC-058 | 19-Nov-20 |
| 20110156-001 | Toluene | | 3.15 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | trans-1,2-Dichloroethylene | | 2.80 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | trans-1,3-Dichloropropylene | K, T, U | < 0.06 ppbv | 0.06 | AC-058 | 19-Nov-20 |
| 20110156-001 | trans-2-Butene | K, T, U | < 0.01 ppbv | 0.01 | AC-058 | 19-Nov-20 |
| 20110156-001 | trans-2-Pentene | K, T, U | < 0.03 ppbv | 0.03 | AC-058 | 19-Nov-20 |
| 20110156-001 | Trichloroethylene | K, T, U | < 0.06 ppbv | 0.06 | AC-058 | 19-Nov-20 |
| 20110156-001 | Vinyl acetate | K, T, U | < 0.6 ppbv | 0.6 | AC-058 | 19-Nov-20 |
| 20110156-001 | Vinyl chloride | K, T, U | < 0.03 ppbv | 0.03 | AC-058 | 19-Nov-20 |

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ENVIRONMENTAL ANALYTICAL SERVICES

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Revision History

| Order ID | Ver | Date | Reason |
|----------|-----|-----------|----------------|
| 20110156 | 01 | 26-Nov-20 | Report created |



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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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 |



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Order Comments



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Sample Comments



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TEST REPORT

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Result Comments

Note:

- 1. Results relate only to items tested and apply to the sample as received.*
- 2. This report shall not be reproduced, except in full, without the explicit approval of the laboratory.*