

<p>RESULTS: Office Manager Peace River Area Monitoring Program Committee</p>	<p style="text-align: center;">CLIENT SAMPLE ID PRAMP_842B-20191115</p> <p>Matrix Ambient Air</p> <p>CANISTER ID: 32271</p> <p>PRIORITY: Normal</p> <p>DESCRIPTION: NMHC Trigger</p>
<p>INVOICE: Karla Reesor 403 807 2995</p>	<p>DATE SAMPLED: 15-Nov-19 9:07 DATE RECEIVED: 19-Nov-19</p> <p>REPORT CREATED: 25-Nov-19 REPORT NUMBER: 19110135</p> <p style="text-align: right;">VERSION: Version 01</p>

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19110135-001	1-Butene	K, T, U	< 0.15	ppmv	0.15	NA-025	21-Nov-19
19110135-001	Acetylene	K, T, U	< 0.12	ppmv	0.12	NA-025	21-Nov-19
19110135-001	n-Butane	K, T, U	< 0.3	ppmv	0.3	NA-025	21-Nov-19
19110135-001	cis-2-Butene	K, T, U	< 0.06	ppmv	0.06	NA-025	21-Nov-19
19110135-001	Ethane	K, T, U	< 0.2	ppmv	0.2	NA-025	21-Nov-19
19110135-001	Ethylacetylene	K, T, U	< 0.09	ppmv	0.09	NA-025	21-Nov-19
19110135-001	Ethylene	K, T, U	< 0.11	ppmv	0.11	NA-025	21-Nov-19
19110135-001	Isobutane	K, T, U	< 0.2	ppmv	0.2	NA-025	21-Nov-19
19110135-001	Isobutylene	K, T, U	< 0.2	ppmv	0.2	NA-025	21-Nov-19
19110135-001	Methane		1.9	ppmv	0.2	NA-025	21-Nov-19
19110135-001	n-Propane	K, T, U	< 0.11	ppmv	0.11	NA-025	21-Nov-19
19110135-001	Propylene	K, T, U	< 0.2	ppmv	0.2	NA-025	21-Nov-19
19110135-001	Propyne	K, T, U	< 0.2	ppmv	0.2	NA-025	21-Nov-19
19110135-001	trans-2-Butene	K, T, U	< 0.14	ppmv	0.14	NA-025	21-Nov-19
19110135-001	2,5-Dimethylthiophene	K, T, U	< 0.5	ppbv	0.5	NA-024	19-Nov-19
19110135-001	2-Ethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	19-Nov-19
19110135-001	2-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	19-Nov-19
19110135-001	3-Methylthiophene	K, T, U	< 0.5	ppbv	0.5	NA-024	19-Nov-19

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PRAMP_842B-20191115	32271	Ambient Air	15-Nov-19 9:07
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REPORT NUMBER:	REPORT CREATED:	VERSION:	Version 01
19110135	25-Nov-19		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19110135-001	Butyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Nov-19
19110135-001	Carbon disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Nov-19
19110135-001	Carbonyl sulphide		0.6 ppbv	0.5	NA-024	19-Nov-19
19110135-001	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Nov-19
19110135-001	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Nov-19
19110135-001	Ethyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Nov-19
19110135-001	Ethyl sulphide	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Nov-19
19110135-001	Hydrogen sulphide		1.4 ppbv	0.2	NA-024	19-Nov-19
19110135-001	Isobutyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Nov-19
19110135-001	Isopropyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Nov-19
19110135-001	Methyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Nov-19
19110135-001	Pentyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	19-Nov-19
19110135-001	Propyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	19-Nov-19
19110135-001	tert-Butyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Nov-19
19110135-001	Thiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Nov-19
19110135-001	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	1,1-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	1,1-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	20-Nov-19
19110135-001	1,2,3-Trimethylbenzene	K, T, U	< 0.08 ppbv	0.08	AC-058	20-Nov-19
19110135-001	1,2,4-Trichlorobenzene	K, T, U	< 1.2 ppbv	1.2	AC-058	20-Nov-19
19110135-001	1,2,4-Trimethylbenzene		0.31 ppbv	0.08	AC-058	20-Nov-19
19110135-001	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	1,2-Dichlorobenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	20-Nov-19

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19110135-001	1,2-Dichloroethane	I	0.02 ppbv	0.02	AC-058	20-Nov-19
19110135-001	1,2-Dichloropropane	I	0.08 ppbv	0.02	AC-058	20-Nov-19
19110135-001	1,3,5-Trimethylbenzene		0.14 ppbv	0.03	AC-058	20-Nov-19
19110135-001	1,3-Butadiene		1.30 ppbv	0.03	AC-058	20-Nov-19
19110135-001	1,3-Dichlorobenzene	K, T, U	< 0.5 ppbv	0.5	AC-058	20-Nov-19
19110135-001	1,4-Dichlorobenzene	K, T, U	< 0.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	1,4-Dioxane	K, T, U	< 0.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	1-Butene/Isobutylene		3.20 ppbv	0.03	AC-058	20-Nov-19
19110135-001	1-Hexene/2-Methyl-1-pentene	I	0.44 ppbv	0.03	AC-058	20-Nov-19
19110135-001	1-Pentene		0.30 ppbv	0.02	AC-058	20-Nov-19
19110135-001	2,2,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Nov-19
19110135-001	2,2-Dimethylbutane		0.11 ppbv	0.02	AC-058	20-Nov-19
19110135-001	2,3,4-Trimethylpentane		0.10 ppbv	0.02	AC-058	20-Nov-19
19110135-001	2,3-Dimethylbutane		0.15 ppbv	0.03	AC-058	20-Nov-19
19110135-001	2,3-Dimethylpentane		0.06 ppbv	0.03	AC-058	20-Nov-19
19110135-001	2,4-Dimethylpentane		0.11 ppbv	0.02	AC-058	20-Nov-19
19110135-001	2-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Nov-19
19110135-001	2-Methylhexane		0.06 ppbv	0.02	AC-058	20-Nov-19
19110135-001	2-Methylpentane		0.20 ppbv	0.02	AC-058	20-Nov-19
19110135-001	3-Methylheptane		0.12 ppbv	0.03	AC-058	20-Nov-19
19110135-001	3-Methylhexane		0.10 ppbv	0.03	AC-058	20-Nov-19
19110135-001	3-Methylpentane		0.17 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Acetone		7.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	Acrolein		1.9 ppbv	0.5	AC-058	20-Nov-19
19110135-001	Benzene		4.17 ppbv	0.02	AC-058	20-Nov-19

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19110135-001	Benzyl chloride	K, T, U	< 0.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Bromoform	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Bromomethane	I	0.03 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Carbon disulfide	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Carbon tetrachloride	I	0.11 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Chlorobenzene	I	0.05 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Chloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Chloroform	I	0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Chloromethane		0.73 ppbv	0.03	AC-058	20-Nov-19
19110135-001	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Nov-19
19110135-001	cis-1,3-Dichloropropene	K, T, U	< 0.06 ppbv	0.06	AC-058	20-Nov-19
19110135-001	cis-2-Butene		0.21 ppbv	0.03	AC-058	20-Nov-19
19110135-001	cis-2-Pentene		0.19 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Cyclohexane		0.16 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Cyclopentane		0.53 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Ethanol		9.5 ppbv	0.5	AC-058	20-Nov-19
19110135-001	Ethyl acetate	K, T, U	< 0.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	Ethylbenzene		0.42 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Freon-11	I	0.20 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Freon-113	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Freon-12		0.59 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Hexachloro-1,3-butadiene	K, T, U	< 0.76 ppbv	0.76	AC-058	20-Nov-19

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19110135-001	Isobutane		1.84 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Isopentane		0.53 ppbv	0.05	AC-058	20-Nov-19
19110135-001	Isoprene		0.35 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Isopropyl alcohol	K, T, U	< 0.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	Isopropylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Nov-19
19110135-001	m,p-Xylene		0.50 ppbv	0.05	AC-058	20-Nov-19
19110135-001	m-Diethylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	20-Nov-19
19110135-001	m-Ethyltoluene	I	0.24 ppbv	0.12	AC-058	20-Nov-19
19110135-001	Methyl butyl ketone	K, T, U	< 0.76 ppbv	0.76	AC-058	20-Nov-19
19110135-001	Methyl ethyl ketone		1.0 ppbv	0.5	AC-058	20-Nov-19
19110135-001	Methyl isobutyl ketone	K, T, U	< 0.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	Methyl methacrylate	I	0.23 ppbv	0.11	AC-058	20-Nov-19
19110135-001	Methyl tert butyl ether	K, T, U	< 0.05 ppbv	0.05	AC-058	20-Nov-19
19110135-001	Methylcyclohexane		0.12 ppbv	0.02	AC-058	20-Nov-19
19110135-001	Methylcyclopentane		0.18 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Methylene chloride	K, T, U	< 0.5 ppbv	0.5	AC-058	20-Nov-19
19110135-001	n-Butane		2.46 ppbv	0.05	AC-058	20-Nov-19
19110135-001	n-Decane		0.23 ppbv	0.09	AC-058	20-Nov-19
19110135-001	n-Dodecane	K, T, U	< 0.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	n-Heptane		0.17 ppbv	0.02	AC-058	20-Nov-19
19110135-001	n-Hexane		0.28 ppbv	0.02	AC-058	20-Nov-19
19110135-001	n-Octane		0.21 ppbv	0.03	AC-058	20-Nov-19
19110135-001	n-Pentane		0.6 ppbv	0.2	AC-058	20-Nov-19
19110135-001	n-Propylbenzene		0.21 ppbv	0.08	AC-058	20-Nov-19
19110135-001	n-Undecane	K, T, U	< 0.8 ppbv	0.8	AC-058	20-Nov-19

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19110135-001	Naphthalene	K, T, U	< 0.8 ppbv	0.8	AC-058	20-Nov-19
19110135-001	n-Nonane		0.19 ppbv	0.02	AC-058	20-Nov-19
19110135-001	o-Ethyltoluene	I	0.08 ppbv	0.02	AC-058	20-Nov-19
19110135-001	o-Xylene		0.24 ppbv	0.02	AC-058	20-Nov-19
19110135-001	p-Diethylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	20-Nov-19
19110135-001	p-Ethyltoluene	I	0.22 ppbv	0.11	AC-058	20-Nov-19
19110135-001	Styrene		0.60 ppbv	0.06	AC-058	20-Nov-19
19110135-001	Tetrachloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	20-Nov-19
19110135-001	Tetrahydrofuran	K, T, U	< 0.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	Toluene		1.74 ppbv	0.02	AC-058	20-Nov-19
19110135-001	trans-1,2-Dichloroethylene		2.37 ppbv	0.02	AC-058	20-Nov-19
19110135-001	trans-1,3-Dichloropropylene	K, T, U	< 0.06 ppbv	0.06	AC-058	20-Nov-19
19110135-001	trans-2-Butene		0.29 ppbv	0.02	AC-058	20-Nov-19
19110135-001	trans-2-Pentene		0.18 ppbv	0.03	AC-058	20-Nov-19
19110135-001	Trichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	20-Nov-19
19110135-001	Vinyl acetate	K, T, U	< 0.6 ppbv	0.6	AC-058	20-Nov-19
19110135-001	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Nov-19



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Revision History

Order ID	Ver	Date	Reason
19110135	01	25-Nov-19	Report created

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
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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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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.*