

<p>RESULTS: Karla Reesor 403 807 2995 Peace River Area Monitoring Program Committee</p> <p>INVOICE: Office Manager</p>	<p>CLIENT SAMPLE ID CANISTER ID Matrix Priority</p> <p>PRAMP_986-20190614 (CH4) 32221 Ambient Air Normal</p> <p>DESCRIPTION: Methane Trigger</p> <p>DATE SAMPLED: 14-Jun-19 1:15 DATE RECEIVED: 18-Jun-19</p> <p>REPORT CREATED: 05-Jul-19 REPORT NUMBER: 19060212</p> <p>VERSION: Version 01</p>
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Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-001	1-Butene	K, T, U	< 0.16 ppmv	0.16	NA-025	19-Jun-19
19060212-001	Acetylene	K, T, U	< 0.13 ppmv	0.13	NA-025	19-Jun-19
19060212-001	n-Butane	K, T, U	< 0.3 ppmv	0.3	NA-025	19-Jun-19
19060212-001	cis-2-Butene	K, T, U	< 0.07 ppmv	0.07	NA-025	19-Jun-19
19060212-001	Ethane	K, T, U	< 0.2 ppmv	0.2	NA-025	19-Jun-19
19060212-001	Ethylacetylene	K, T, U	< 0.10 ppmv	0.10	NA-025	19-Jun-19
19060212-001	Ethylene	K, T, U	< 0.12 ppmv	0.12	NA-025	19-Jun-19
19060212-001	Isobutane	K, T, U	< 0.2 ppmv	0.2	NA-025	19-Jun-19
19060212-001	Isobutylene	K, T, U	< 0.2 ppmv	0.2	NA-025	19-Jun-19
19060212-001	Methane		2.6 ppmv	0.2	NA-025	19-Jun-19
19060212-001	n-Propane	K, T, U	< 0.12 ppmv	0.12	NA-025	19-Jun-19
19060212-001	Propylene	K, T, U	< 0.2 ppmv	0.2	NA-025	19-Jun-19
19060212-001	Propyne	K, T, U	< 0.2 ppmv	0.2	NA-025	19-Jun-19
19060212-001	trans-2-Butene	K, T, U	< 0.15 ppmv	0.15	NA-025	19-Jun-19
19060212-001	2,5-Dimethylthiophene	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Jun-19
19060212-001	2-Ethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-001	2-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-001	3-Methylthiophene	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Jun-19

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 (CH4)	32221	Ambient Air	14-Jun-19	1:15
DESCRIPTION:	Methane Trigger			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-001	Butyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Jun-19
19060212-001	Carbon disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-001	Carbonyl sulphide		1.0 ppbv	0.5	NA-024	19-Jun-19
19060212-001	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-001	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-001	Ethyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Jun-19
19060212-001	Ethyl sulphide	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Jun-19
19060212-001	Hydrogen sulphide		3.4 ppbv	0.2	NA-024	19-Jun-19
19060212-001	Isobutyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Jun-19
19060212-001	Isopropyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Jun-19
19060212-001	Methyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-001	Pentyl mercaptan	K, T, U	< 0.7 ppbv	0.7	NA-024	19-Jun-19
19060212-001	Propyl mercaptan	K, T, U	< 0.7 ppbv	0.7	NA-024	19-Jun-19
19060212-001	tert-Butyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	19-Jun-19
19060212-001	Thiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-001	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	1,1-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	1,1-Dichloroethylene	K, T, U	< 0.07 ppbv	0.07	AC-058	20-Jun-19
19060212-001	1,2,3-Trimethylbenzene	K, T, U	< 0.08 ppbv	0.08	AC-058	20-Jun-19
19060212-001	1,2,4-Trichlorobenzene	K, T, U	< 1.3 ppbv	1.3	AC-058	20-Jun-19
19060212-001	1,2,4-Trimethylbenzene	K, T, U	< 0.08 ppbv	0.08	AC-058	20-Jun-19
19060212-001	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	1,2-Dichlorobenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	20-Jun-19

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: July 5, 2019

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 (CH4)	32221	Ambient Air	14-Jun-19	1:15
DESCRIPTION:	Methane Trigger			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19060212-001	1,2-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	1,2-Dichloropropane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	20-Jun-19
19060212-001	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	20-Jun-19
19060212-001	1,3-Dichlorobenzene	K, T, U	< 0.5	ppbv	0.5	AC-058	20-Jun-19
19060212-001	1,4-Dichlorobenzene	K, T, U	< 0.7	ppbv	0.7	AC-058	20-Jun-19
19060212-001	1,4-Dioxane	K, T, U	< 0.7	ppbv	0.7	AC-058	20-Jun-19
19060212-001	1-Butene/Isobutylene		4.15	ppbv	0.03	AC-058	20-Jun-19
19060212-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	20-Jun-19
19060212-001	1-Pentene		0.54	ppbv	0.02	AC-058	20-Jun-19
19060212-001	2,2,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	2,2-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	2,3,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	2,3-Dimethylbutane	K, T, U	< 0.03	ppbv	0.03	AC-058	20-Jun-19
19060212-001	2,3-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	20-Jun-19
19060212-001	2,4-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	2-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	2-Methylhexane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	2-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	20-Jun-19
19060212-001	3-Methylhexane	K, T, U	< 0.03	ppbv	0.03	AC-058	20-Jun-19
19060212-001	3-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	Acetone		17.3	ppbv	0.7	AC-058	20-Jun-19
19060212-001	Acrolein	K, T, U	< 0.5	ppbv	0.5	AC-058	20-Jun-19
19060212-001	Benzene		0.80	ppbv	0.02	AC-058	20-Jun-19

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PRAMP_986-20190614 (CH4)	32221	Ambient Air	14-Jun-19	1:15
DESCRIPTION:	Methane Trigger			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-001	Benzyl chloride	K, T, U	< 0.7 ppbv	0.7	AC-058	20-Jun-19
19060212-001	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Bromoform	I	0.05 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Bromomethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-001	Carbon disulfide	I	0.22 ppbv	0.02	AC-058	20-Jun-19
19060212-001	Carbon tetrachloride	I	0.05 ppbv	0.02	AC-058	20-Jun-19
19060212-001	Chlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Chloroethane	I	0.06 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Chloroform	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Chloromethane		0.78 ppbv	0.03	AC-058	20-Jun-19
19060212-001	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-001	cis-1,3-Dichloropropene	K, T, U	< 0.07 ppbv	0.07	AC-058	20-Jun-19
19060212-001	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	cis-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Cyclohexane	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Cyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-001	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-001	Ethanol		6.2 ppbv	0.5	AC-058	20-Jun-19
19060212-001	Ethyl acetate	K, T, U	< 0.7 ppbv	0.7	AC-058	20-Jun-19
19060212-001	Ethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-001	Freon-11	I	0.16 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Freon-113	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-001	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Freon-12	I	0.36 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Hexachloro-1,3-butadiene	K, T, U	< 0.82 ppbv	0.82	AC-058	20-Jun-19

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

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 (CH4)	32221	Ambient Air	14-Jun-19	1:15
DESCRIPTION:	Methane Trigger			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19060212-001	Isobutane		2.81	ppbv	0.03	AC-058	20-Jun-19
19060212-001	Isopentane		0.19	ppbv	0.05	AC-058	20-Jun-19
19060212-001	Isoprene		1.25	ppbv	0.02	AC-058	20-Jun-19
19060212-001	Isopropyl alcohol		0.8	ppbv	0.7	AC-058	20-Jun-19
19060212-001	Isopropylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	m,p-Xylene	K, T, U	< 0.05	ppbv	0.05	AC-058	20-Jun-19
19060212-001	m-Diethylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	20-Jun-19
19060212-001	m-Ethyltoluene	K, T, U	< 0.13	ppbv	0.13	AC-058	20-Jun-19
19060212-001	Methyl butyl ketone	K, T, U	< 0.82	ppbv	0.82	AC-058	20-Jun-19
19060212-001	Methyl ethyl ketone	K, T, U	< 0.5	ppbv	0.5	AC-058	20-Jun-19
19060212-001	Methyl isobutyl ketone	K, T, U	< 0.7	ppbv	0.7	AC-058	20-Jun-19
19060212-001	Methyl methacrylate	K, T, U	< 0.12	ppbv	0.12	AC-058	20-Jun-19
19060212-001	Methyl tert butyl ether	K, T, U	< 0.05	ppbv	0.05	AC-058	20-Jun-19
19060212-001	Methylcyclohexane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	Methylcyclopentane	K, T, U	< 0.03	ppbv	0.03	AC-058	20-Jun-19
19060212-001	Methylene chloride	K, T, U	< 0.5	ppbv	0.5	AC-058	20-Jun-19
19060212-001	n-Butane		0.52	ppbv	0.05	AC-058	20-Jun-19
19060212-001	n-Decane	K, T, U	< 0.10	ppbv	0.10	AC-058	20-Jun-19
19060212-001	n-Dodecane	K, T, U	< 0.7	ppbv	0.7	AC-058	20-Jun-19
19060212-001	n-Heptane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	n-Hexane	K, T, U	< 0.02	ppbv	0.02	AC-058	20-Jun-19
19060212-001	n-Octane		0.11	ppbv	0.03	AC-058	20-Jun-19
19060212-001	n-Pentane		0.2	ppbv	0.2	AC-058	20-Jun-19
19060212-001	n-Propylbenzene	K, T, U	< 0.08	ppbv	0.08	AC-058	20-Jun-19
19060212-001	n-Undecane	K, T, U	< 0.8	ppbv	0.8	AC-058	20-Jun-19

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 (CH4)	32221	Ambient Air	14-Jun-19	1:15
DESCRIPTION:	Methane Trigger			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-001	Naphthalene	K, T, U	< 0.8 ppbv	0.8	AC-058	20-Jun-19
19060212-001	n-Nonane		0.16 ppbv	0.02	AC-058	20-Jun-19
19060212-001	o-Ethyltoluene	I	0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-001	o-Xylene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-001	p-Diethylbenzene	I	0.12 ppbv	0.07	AC-058	20-Jun-19
19060212-001	p-Ethyltoluene	K, T, U	< 0.12 ppbv	0.12	AC-058	20-Jun-19
19060212-001	Styrene	I	0.45 ppbv	0.07	AC-058	20-Jun-19
19060212-001	Tetrachloroethylene	K, T, U	< 0.07 ppbv	0.07	AC-058	20-Jun-19
19060212-001	Tetrahydrofuran	K, T, U	< 0.7 ppbv	0.7	AC-058	20-Jun-19
19060212-001	Toluene		0.75 ppbv	0.02	AC-058	20-Jun-19
19060212-001	trans-1,2-Dichloroethylene		0.97 ppbv	0.02	AC-058	20-Jun-19
19060212-001	trans-1,3-Dichloropropylene	I	0.07 ppbv	0.07	AC-058	20-Jun-19
19060212-001	trans-2-Butene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-001	trans-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-001	Trichloroethylene	K, T, U	< 0.07 ppbv	0.07	AC-058	20-Jun-19
19060212-001	Vinyl acetate	K, T, U	< 0.7 ppbv	0.7	AC-058	20-Jun-19
19060212-001	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 Blank	28916	Ambient Air	14-Jun-19	14:26
DESCRIPTION:	Methane Trigger (Blank)			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-002	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	19-Jun-19
19060212-002	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	19-Jun-19
19060212-002	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	19-Jun-19
19060212-002	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	19-Jun-19
19060212-002	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	19-Jun-19
19060212-002	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	19-Jun-19
19060212-002	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	19-Jun-19
19060212-002	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	19-Jun-19
19060212-002	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	19-Jun-19
19060212-002	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	19-Jun-19
19060212-002	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	19-Jun-19
19060212-002	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	19-Jun-19
19060212-002	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	19-Jun-19
19060212-002	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	19-Jun-19
19060212-002	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-002	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Jun-19
19060212-002	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Jun-19
19060212-002	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-002	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-002	Carbon disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Jun-19
19060212-002	Carbonyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-002	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Jun-19
19060212-002	Dimethyl sulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Jun-19
19060212-002	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-002	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 Blank	28916	Ambient Air	14-Jun-19	14:26
DESCRIPTION:	Methane Trigger (Blank)			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-002	Hydrogen sulphide	K, T, U	< 0.1 ppbv	0.1	NA-024	19-Jun-19
19060212-002	Isobutyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-002	Isopropyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-002	Methyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Jun-19
19060212-002	Pentyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	19-Jun-19
19060212-002	Propyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	19-Jun-19
19060212-002	tert-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	19-Jun-19
19060212-002	Thiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	19-Jun-19
19060212-002	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	1,1,2-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	1,1-Dichloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	20-Jun-19
19060212-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	20-Jun-19
19060212-002	1,2,4-Trichlorobenzene	K, T, U	< 0.8 ppbv	0.8	AC-058	20-Jun-19
19060212-002	1,2,4-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	20-Jun-19
19060212-002	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	1,2-Dichlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-002	1,2-Dichloroethane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	1,2-Dichloropropane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	1,3,5-Trimethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	1,3-Butadiene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	1,3-Dichlorobenzene	K, T, U	< 0.3 ppbv	0.3	AC-058	20-Jun-19
19060212-002	1,4-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19
19060212-002	1,4-Dioxane	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: July 5, 2019

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 Blank	28916	Ambient Air	14-Jun-19	14:26
DESCRIPTION:	Methane Trigger (Blank)			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-002	1-Butene/Isobutylene		7.22 ppbv	0.02	AC-058	20-Jun-19
19060212-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	1-Pentene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	2,2,4-Trimethylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	2,2-Dimethylbutane		0.02 ppbv	0.01	AC-058	20-Jun-19
19060212-002	2,3,4-Trimethylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	2,3-Dimethylbutane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	2,3-Dimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	2,4-Dimethylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	2-Methylheptane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	2-Methylhexane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	2-Methylpentane		0.02 ppbv	0.01	AC-058	20-Jun-19
19060212-002	3-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	3-Methylhexane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	3-Methylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Acetone	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19
19060212-002	Acrolein	K, T, U	< 0.3 ppbv	0.3	AC-058	20-Jun-19
19060212-002	Benzene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Benzyl chloride	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19
19060212-002	Bromodichloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Bromoform	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Bromomethane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Carbon disulfide	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Carbon tetrachloride	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: July 5, 2019

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 Blank	28916	Ambient Air	14-Jun-19	14:26
DESCRIPTION:	Methane Trigger (Blank)			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-002	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Chloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	cis-1,2-Dichloroethene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	cis-1,3-Dichloropropene	K, T, U	< 0.04 ppbv	0.04	AC-058	20-Jun-19
19060212-002	cis-2-Butene		0.05 ppbv	0.02	AC-058	20-Jun-19
19060212-002	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Cyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Cyclopentane		17.8 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Dibromochloromethane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Ethanol	K, T, U	< 0.3 ppbv	0.3	AC-058	20-Jun-19
19060212-002	Ethyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19
19060212-002	Ethylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Freon-113	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Freon-114	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Freon-12	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Hexachloro-1,3-butadiene	K, T, U	< 0.50 ppbv	0.50	AC-058	20-Jun-19
19060212-002	Isobutane		7.16 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Isopentane		1.70 ppbv	0.03	AC-058	20-Jun-19
19060212-002	Isoprene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Isopropyl alcohol	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19
19060212-002	Isopropylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	m,p-Xylene	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-002	m-Diethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	20-Jun-19

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 Blank	28916	Ambient Air	14-Jun-19	14:26
DESCRIPTION:	Methane Trigger (Blank)			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-002	m-Ethyltoluene	K, T, U	< 0.08 ppbv	0.08	AC-058	20-Jun-19
19060212-002	Methyl butyl ketone	K, T, U	< 0.50 ppbv	0.50	AC-058	20-Jun-19
19060212-002	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	20-Jun-19
19060212-002	Methyl isobutyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19
19060212-002	Methyl methacrylate	K, T, U	< 0.07 ppbv	0.07	AC-058	20-Jun-19
19060212-002	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	20-Jun-19
19060212-002	Methylcyclohexane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	Methylcyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	20-Jun-19
19060212-002	n-Butane		0.40 ppbv	0.03	AC-058	20-Jun-19
19060212-002	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	20-Jun-19
19060212-002	n-Dodecane	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19
19060212-002	n-Heptane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	n-Hexane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	n-Octane	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	n-Pentane		0.3 ppbv	0.1	AC-058	20-Jun-19
19060212-002	n-Propylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	20-Jun-19
19060212-002	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	20-Jun-19
19060212-002	Naphthalene	K, T, U	< 0.5 ppbv	0.5	AC-058	20-Jun-19
19060212-002	n-Nonane	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	o-Ethyltoluene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	o-Xylene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	p-Diethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	20-Jun-19
19060212-002	p-Ethyltoluene	K, T, U	< 0.07 ppbv	0.07	AC-058	20-Jun-19
19060212-002	Styrene	K, T, U	< 0.04 ppbv	0.04	AC-058	20-Jun-19

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-20190614 Blank	28916	Ambient Air	14-Jun-19	14:26
DESCRIPTION:	Methane Trigger (Blank)			
REPORT NUMBER:	19060212	REPORT CREATED:	05-Jul-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19060212-002	Tetrachloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	20-Jun-19
19060212-002	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19
19060212-002	Toluene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	trans-1,2-Dichloroethylene		1.49 ppbv	0.01	AC-058	20-Jun-19
19060212-002	trans-1,3-Dichloropropylene	K, T, U	< 0.04 ppbv	0.04	AC-058	20-Jun-19
19060212-002	trans-2-Butene	K, T, U	< 0.01 ppbv	0.01	AC-058	20-Jun-19
19060212-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19
19060212-002	Trichloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	20-Jun-19
19060212-002	Vinyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	20-Jun-19
19060212-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	20-Jun-19



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Revision History

Order ID	Ver	Date	Reason
19060212	01	05-Jul-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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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Order Comments

19060212

Send results to pramptech@prampairshed.ca. Unknowns to be reported. Return sample to reception for isotope analysis.



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Sample Comments

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.*

19060212-002 VOC FULL

Method blank in the sequence is clean. Pre-see sample has lower concentration (2.81 ppbv) for this parameter, which means no possibility of carryover. Reanalysis for this sample confirms this result.

19060212-002 VOC FULL

Method blank in the sequence is clean. Pre-see sample has no detectable result for this parameter. Reanalysis for this sample confirmed the result.

19060212-002 VOC FULL

Method blank in the sequence is clean. Pre-sequence sample has lower concentration (4.15 ppbv) for this parameter eliminating a carryover issue. Reanalysis for this sample confirmed this result.