

<p>RESULTS: Karla Reesor 403 807 2995 Peace River Area Monitoring Program Committee</p> <p>INVOICE: Office Manager</p>	<p style="text-align: center;">CLIENT SAMPLE ID PRAMP_842b-2023-07-12</p> <p>MATRIX: Ambient Air</p> <p>CANISTER ID: 28905</p> <p>PRIORITY: Normal</p> <p>DESCRIPTION: NMHC Trigger</p> <p>DATE SAMPLED: 07-Jul-23 3:55 DATE RECEIVED: 13-Jul-23</p> <p>REPORT CREATED: 08-Aug-23 REPORT NUMBER: 23070165</p> <p style="text-align: right;">VERSION: Version 01</p>
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Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23070165-001	1-Butene	K, T, U	< 0.14 ppmv	0.14	NA-025	17-Jul-23
23070165-001	Acetylene	K, T, U	< 0.12 ppmv	0.12	NA-025	17-Jul-23
23070165-001	n-Butane	K, T, U	< 0.3 ppmv	0.3	NA-025	17-Jul-23
23070165-001	cis-2-Butene	K, T, U	< 0.06 ppmv	0.06	NA-025	17-Jul-23
23070165-001	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Jul-23
23070165-001	Ethylacetylene	K, T, U	< 0.09 ppmv	0.09	NA-025	17-Jul-23
23070165-001	Ethylene	K, T, U	< 0.10 ppmv	0.10	NA-025	17-Jul-23
23070165-001	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Jul-23
23070165-001	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Jul-23
23070165-001	Methane		2.6 ppmv	0.1	NA-025	17-Jul-23
23070165-001	n-Propane	K, T, U	< 0.10 ppmv	0.10	NA-025	17-Jul-23
23070165-001	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Jul-23
23070165-001	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Jul-23
23070165-001	trans-2-Butene	K, T, U	< 0.13 ppmv	0.13	NA-025	17-Jul-23
23070165-001	2,5-Dimethylthiophene	K, T, U	< 0.4 ppbv	0.4	NA-024	14-Jul-23
23070165-001	2-Ethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	14-Jul-23
23070165-001	2-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	14-Jul-23

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842b-2023-07-12	28905	Ambient Air	07-Jul-23	3:55
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	23070165	REPORT CREATED:	08-Aug-23	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23070165-001	3-Methylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	14-Jul-23
23070165-001	Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	14-Jul-23
23070165-001	Carbon disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-001	Carbonyl sulphide	K, T, U	< 0.4	ppbv	0.4	NA-024	14-Jul-23
23070165-001	Dimethyl disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-001	Dimethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-001	Ethyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	14-Jul-23
23070165-001	Ethyl sulphide	K, T, U	< 0.4	ppbv	0.4	NA-024	14-Jul-23
23070165-001	Hydrogen sulphide	K, T, U	< 0.1	ppbv	0.1	NA-024	14-Jul-23
23070165-001	Isobutyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	14-Jul-23
23070165-001	Isopropyl mercaptan	K, T, U	< 0.1	ppbv	0.1	NA-024	14-Jul-23
23070165-001	Methyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-001	Pentyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	14-Jul-23
23070165-001	Propyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	14-Jul-23
23070165-001	tert-Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	14-Jul-23
23070165-001	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-001	1,1,1-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	1,1,2-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	1,1-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	1,1-Dichloroethylene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	1,2,3-Trimethylbenzene		0.35	ppbv	0.07	AC-058	18-Jul-23
23070165-001	1,2,4-Trichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	1,2,4-Trimethylbenzene	I	0.20	ppbv	0.04	AC-058	18-Jul-23
23070165-001	1,2-Dibromoethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23

Report certified by: Andrea Conner, Admin Assistant

Date: August 8, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at <https://directory.cala.ca/>

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842b-2023-07-12	28905	Ambient Air	07-Jul-23	3:55
DESCRIPTION:	NMHC Trigger			
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Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23070165-001	1,2-Dichlorobenzene	I	0.05	ppbv	0.04	AC-058	18-Jul-23
23070165-001	1,2-Dichloroethane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-001	1,2-Dichloropropane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-001	1,3,5-Trimethylbenzene	I	0.07	ppbv	0.04	AC-058	18-Jul-23
23070165-001	1,3-Butadiene		0.55	ppbv	0.04	AC-058	18-Jul-23
23070165-001	1,3-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	18-Jul-23
23070165-001	1,4-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	18-Jul-23
23070165-001	1,4-Dioxane	K, T, U	< 0.7	ppbv	0.7	AC-058	18-Jul-23
23070165-001	1-Butene/Isobutylene		3.88	ppbv	0.09	AC-058	18-Jul-23
23070165-001	1-Hexene/2-Methyl-1-pentene		0.34	ppbv	0.10	AC-058	18-Jul-23
23070165-001	1-Pentene		0.34	ppbv	0.04	AC-058	18-Jul-23
23070165-001	2,2,4-Trimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	2,2-Dimethylbutane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	2,3,4-Trimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	2,3-Dimethylbutane	K, T, U	< 0.13	ppbv	0.13	AC-058	18-Jul-23
23070165-001	2,3-Dimethylpentane	I	0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	2,4-Dimethylpentane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-001	2-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	2-Methylhexane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-001	2-Methylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	3-Methylheptane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-001	3-Methylhexane	I	0.04	ppbv	0.03	AC-058	18-Jul-23
23070165-001	3-Methylpentane	I	0.04	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Acetone		15.3	ppbv	0.6	AC-058	18-Jul-23
23070165-001	Acrolein		2.4	ppbv	0.4	AC-058	18-Jul-23

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23070165-001	Benzene		4.41	ppbv	0.04	AC-058	18-Jul-23
23070165-001	Benzyl chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	Bromodichloromethane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-001	Bromoform	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Bromomethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Carbon disulfide	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Carbon tetrachloride	I	0.08	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Chloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Chloroform	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Chloromethane		1.05	ppbv	0.06	AC-058	18-Jul-23
23070165-001	cis-1,2-Dichloroethene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	cis-1,3-Dichloropropene	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-001	cis-2-Butene		0.28	ppbv	0.04	AC-058	18-Jul-23
23070165-001	cis-2-Pentene	I	0.07	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Cyclohexane	I	0.06	ppbv	0.06	AC-058	18-Jul-23
23070165-001	Cyclopentane		0.18	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Dibromochloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Ethanol		3.0	ppbv	0.7	AC-058	18-Jul-23
23070165-001	Ethyl acetate	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	Ethylbenzene	I	0.20	ppbv	0.04	AC-058	18-Jul-23
23070165-001	Freon-11		0.24	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Freon-113	I	0.06	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Freon-114	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-001	Freon-12		0.51	ppbv	0.04	AC-058	18-Jul-23

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23070165-001	Hexachloro-1,3-butadiene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	Isobutane		0.75	ppbv	0.04	AC-058	18-Jul-23
23070165-001	Isopentane		0.76	ppbv	0.06	AC-058	18-Jul-23
23070165-001	Isoprene		2.09	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Isopropyl alcohol	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	Isopropylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	18-Jul-23
23070165-001	m,p-Xylene	I	0.29	ppbv	0.06	AC-058	18-Jul-23
23070165-001	m-Diethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	m-Ethyltoluene		0.21	ppbv	0.04	AC-058	18-Jul-23
23070165-001	Methyl butyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	18-Jul-23
23070165-001	Methyl ethyl ketone		1.6	ppbv	0.4	AC-058	18-Jul-23
23070165-001	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	Methyl methacrylate	I	0.14	ppbv	0.12	AC-058	18-Jul-23
23070165-001	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-001	Methylcyclohexane	I	0.04	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Methylcyclopentane	K, T, U	< 0.07	ppbv	0.07	AC-058	18-Jul-23
23070165-001	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	n-Butane		2.21	ppbv	0.03	AC-058	18-Jul-23
23070165-001	n-Decane		0.17	ppbv	0.09	AC-058	18-Jul-23
23070165-001	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	n-Heptane	I	0.16	ppbv	0.06	AC-058	18-Jul-23
23070165-001	n-Hexane	I	0.27	ppbv	0.04	AC-058	18-Jul-23
23070165-001	n-Octane	I	0.14	ppbv	0.03	AC-058	18-Jul-23
23070165-001	n-Pentane		0.68	ppbv	0.06	AC-058	18-Jul-23
23070165-001	n-Propylbenzene		0.15	ppbv	0.09	AC-058	18-Jul-23

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REPORT NUMBER:	23070165	REPORT CREATED:	08-Aug-23	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23070165-001	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	18-Jul-23
23070165-001	Naphthalene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	n-Nonane	I	0.10	ppbv	0.06	AC-058	18-Jul-23
23070165-001	o-Ethyltoluene	I	0.12	ppbv	0.03	AC-058	18-Jul-23
23070165-001	o-Xylene	I	0.18	ppbv	0.04	AC-058	18-Jul-23
23070165-001	p-Diethylbenzene		0.17	ppbv	0.03	AC-058	18-Jul-23
23070165-001	p-Ethyltoluene	I	0.07	ppbv	0.06	AC-058	18-Jul-23
23070165-001	Styrene	I	0.22	ppbv	0.06	AC-058	18-Jul-23
23070165-001	Tetrachloroethylene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Tetrahydrofuran	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	Toluene		1.93	ppbv	0.04	AC-058	18-Jul-23
23070165-001	trans-1,2-Dichloroethylene		2.18	ppbv	0.09	AC-058	18-Jul-23
23070165-001	trans-1,3-Dichloropropylene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	trans-2-Butene		0.30	ppbv	0.04	AC-058	18-Jul-23
23070165-001	trans-2-Pentene	I	0.08	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Trichloroethylene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-001	Vinyl acetate	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-001	Vinyl chloride	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842b-2023-07-12 Blank	28955	Ambient Air	07-Jul-23	3:55
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	23070165	REPORT CREATED:	08-Aug-23	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23070165-002	1-Butene	K, T, U	< 0.10	ppmv	0.10	NA-025	17-Jul-23
23070165-002	Acetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	17-Jul-23
23070165-002	n-Butane	K, T, U	< 0.2	ppmv	0.2	NA-025	17-Jul-23
23070165-002	cis-2-Butene	K, T, U	< 0.04	ppmv	0.04	NA-025	17-Jul-23
23070165-002	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Jul-23
23070165-002	Ethylacetylene	K, T, U	< 0.06	ppmv	0.06	NA-025	17-Jul-23
23070165-002	Ethylene	K, T, U	< 0.07	ppmv	0.07	NA-025	17-Jul-23
23070165-002	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Jul-23
23070165-002	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Jul-23
23070165-002	Methane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Jul-23
23070165-002	n-Propane	K, T, U	< 0.07	ppmv	0.07	NA-025	17-Jul-23
23070165-002	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Jul-23
23070165-002	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Jul-23
23070165-002	trans-2-Butene	K, T, U	< 0.09	ppmv	0.09	NA-025	17-Jul-23
23070165-002	2,5-Dimethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-002	2-Ethylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	14-Jul-23
23070165-002	2-Methylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	14-Jul-23
23070165-002	3-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-002	Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-002	Carbon disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	14-Jul-23
23070165-002	Carbonyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-002	Dimethyl disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	14-Jul-23
23070165-002	Dimethyl sulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	14-Jul-23
23070165-002	Ethyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-002	Ethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23

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23070165-002	Hydrogen sulphide	K, T, U	< 0.1	ppbv	0.1	NA-024	14-Jul-23
23070165-002	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-002	Isopropyl mercaptan	K, T, U	< 0.1	ppbv	0.1	NA-024	14-Jul-23
23070165-002	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	14-Jul-23
23070165-002	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	14-Jul-23
23070165-002	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	14-Jul-23
23070165-002	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	14-Jul-23
23070165-002	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	14-Jul-23
23070165-002	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	1,1-Dichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	1,2,3-Trimethylbenzene	I	0.08	ppbv	0.05	AC-058	18-Jul-23
23070165-002	1,2,4-Trichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	1,2,4-Trimethylbenzene	I	0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	1,2-Dichlorobenzene	I	0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	1,2-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	1,2-Dichloropropane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-002	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-002	1,4-Dioxane	K, T, U	< 0.5	ppbv	0.5	AC-058	18-Jul-23

Report certified by: Andrea Conner, Admin Assistant

Date: August 8, 2023

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at <https://directory.cala.ca/>

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842b-2023-07-12 Blank	28955	Ambient Air	07-Jul-23	3:55
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	23070165	REPORT CREATED:	08-Aug-23	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23070165-002	1-Butene/Isobutylene	K, T, U	< 0.06	ppbv	0.06	AC-058	18-Jul-23
23070165-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07	ppbv	0.07	AC-058	18-Jul-23
23070165-002	1-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	2,2,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	2,2-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	2,3,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	2,3-Dimethylbutane	K, T, U	< 0.09	ppbv	0.09	AC-058	18-Jul-23
23070165-002	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	2,4-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	2-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	2-Methylhexane	I	0.05	ppbv	0.03	AC-058	18-Jul-23
23070165-002	2-Methylpentane	I	0.04	ppbv	0.02	AC-058	18-Jul-23
23070165-002	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	3-Methylhexane	I	0.06	ppbv	0.02	AC-058	18-Jul-23
23070165-002	3-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Acetone	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-002	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	Benzene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	Benzyl chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	Bromoform	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Bromomethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Carbon disulfide	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Carbon tetrachloride	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23

Report certified by: Andrea Conner, Admin Assistant

Date: August 8, 2023

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On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

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PRAMP_842b-2023-07-12 Blank	28955	Ambient Air	07-Jul-23	3:55
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	23070165	REPORT CREATED:	08-Aug-23	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23070165-002	Chloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Chloroform	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Chloromethane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-002	cis-1,2-Dichloroethene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	cis-1,3-Dichloropropene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	cis-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	cis-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Cyclohexane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-002	Cyclopentane	I	0.08	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Dibromochloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Ethanol	K, T, U	< 0.5	ppbv	0.5	AC-058	18-Jul-23
23070165-002	Ethyl acetate	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	Ethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	Freon-11	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Freon-113	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Freon-114	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	Freon-12	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	Hexachloro-1,3-butadiene	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	Isobutane	I	0.07	ppbv	0.03	AC-058	18-Jul-23
23070165-002	Isopentane	I	0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-002	Isoprene	I	0.05	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Isopropyl alcohol	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	Isopropylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-002	m,p-Xylene	I	0.07	ppbv	0.04	AC-058	18-Jul-23
23070165-002	m-Diethylbenzene	I	0.08	ppbv	0.02	AC-058	18-Jul-23

Report certified by: Andrea Conner, Admin Assistant

Date: August 8, 2023

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DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	23070165	REPORT CREATED:	08-Aug-23
			VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23070165-002	m-Ethyltoluene	I	0.08	ppbv	0.03	AC-058	18-Jul-23
23070165-002	Methyl butyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	18-Jul-23
23070165-002	Methyl ethyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	Methyl isobutyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	Methyl methacrylate	K, T, U	< 0.08	ppbv	0.08	AC-058	18-Jul-23
23070165-002	Methyl tert butyl ether	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	Methylcyclohexane	I	0.06	ppbv	0.02	AC-058	18-Jul-23
23070165-002	Methylcyclopentane	K, T, U	< 0.05	ppbv	0.05	AC-058	18-Jul-23
23070165-002	Methylene chloride		2.5	ppbv	0.3	AC-058	18-Jul-23
23070165-002	n-Butane	I	0.06	ppbv	0.02	AC-058	18-Jul-23
23070165-002	n-Decane	I	0.07	ppbv	0.06	AC-058	18-Jul-23
23070165-002	n-Dodecane	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	n-Heptane	I	0.07	ppbv	0.04	AC-058	18-Jul-23
23070165-002	n-Hexane	I	0.05	ppbv	0.03	AC-058	18-Jul-23
23070165-002	n-Octane	I	0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	n-Pentane	I	0.05	ppbv	0.04	AC-058	18-Jul-23
23070165-002	n-Propylbenzene	I	0.06	ppbv	0.06	AC-058	18-Jul-23
23070165-002	n-Undecane	K, T, U	< 0.5	ppbv	0.5	AC-058	18-Jul-23
23070165-002	Naphthalene	K, T, U	< 0.3	ppbv	0.3	AC-058	18-Jul-23
23070165-002	n-Nonane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-002	o-Ethyltoluene	I	0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	o-Xylene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-Jul-23
23070165-002	p-Diethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	18-Jul-23
23070165-002	p-Ethyltoluene	K, T, U	< 0.04	ppbv	0.04	AC-058	18-Jul-23
23070165-002	Styrene	I	0.07	ppbv	0.04	AC-058	18-Jul-23

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DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	23070165	REPORT CREATED:	08-Aug-23
			VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23070165-002	Tetrachloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Jul-23
23070165-002	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Jul-23
23070165-002	Toluene		0.83 ppbv	0.03	AC-058	18-Jul-23
23070165-002	trans-1,2-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	18-Jul-23
23070165-002	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Jul-23
23070165-002	trans-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-Jul-23
23070165-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Jul-23
23070165-002	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Jul-23
23070165-002	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	18-Jul-23
23070165-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	18-Jul-23



PO Bag 4000
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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Revision History

Order ID	Ver	Date	Reason
23070165	01	08-Aug-23	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

List of Analytical Method IDs within InnoTech's ISO/IEC 17025:2017 CALA Scope of Accreditation

Method ID	Description
AC-013	Mercury in Waters by Cold Vapor Atomic Fluorescence Detection (CVAFS)
AC-020	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-021	Elemental Analysis Methodology of Filter-collected Airborne Particulate Matter (PM) by ICP-MS
AC-026	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-029	Procedure for the Equilibration and Weighing of Membrane Filters and PUFs on the Mettler Toledo Micro Balance
AC-035	Analysis of Glyphosate, Aminomethylphosphonic Acid and Glufosinate in Water
AC-038	Trace Metal Analysis of Water Samples by ICP-MS
AC-048	Specific Conductance (Conductivity Meter Method)
AC-049	pH (Meter Method)
AC-054	Alkalinity Total and Phenolphthalein
AC-058	Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry
AC-060	Trace Metal Analysis of Soil Sediment and Industrial Waste Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-061	Trace Metal Analysis for Biological Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-065	Analysis of Naphthenic Acids in Water by HPLC-Orbitrap-MS analysis
AC-074	Pesticides in Water
AC-079	Alkylated PAH in Soil and Sediment
AC-080	Alkylated PAH in Water (SPE Extraction)
NA-006	Determination of BTEX, F1 Hydrocarbons and F2, F3 and F4 Hydrocarbons in Water
NA-024	Analysis of Reduced Sulfur Compounds in Air

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

23070165

Send results to pramptech@prampairshed.ca



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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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.*