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# ENVIRONMENTAL ANALYTICAL SERVICES

## TEST REPORT

<p><b>RESULTS:</b> Karla Reesor                      403 807 2995 Peace River Area Monitoring Program Committee</p> <p><b>INVOICE:</b> Office Manager</p>	<p style="text-align: center;"><b>CLIENT SAMPLE ID</b> PRAMP_842b-20220315</p> <p><b>MATRIX:</b> Ambient Air</p> <p><b>CANISTER ID:</b> 28953 <b>PRIORITY:</b> Normal <b>DESCRIPTION:</b> NMHC Trigger</p> <p><b>DATE SAMPLED:</b> 15-Mar-22    4:40    <b>DATE RECEIVED:</b> 16-Mar-22</p> <p><b>REPORT CREATED:</b> 04-Apr-22    <b>REPORT NUMBER:</b> 22030094</p> <p style="text-align: right;"><b>VERSION:</b> Version 01</p>
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Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
22030094-001	1-Butene	K, T, U	< 0.14	ppmv	0.14	NA-025	17-Mar-22
22030094-001	Acetylene	K, T, U	< 0.12	ppmv	0.12	NA-025	17-Mar-22
22030094-001	n-Butane	K, T, U	< 0.3	ppmv	0.3	NA-025	17-Mar-22
22030094-001	cis-2-Butene	K, T, U	< 0.06	ppmv	0.06	NA-025	17-Mar-22
22030094-001	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Mar-22
22030094-001	Ethylacetylene	K, T, U	< 0.09	ppmv	0.09	NA-025	17-Mar-22
22030094-001	Ethylene	K, T, U	< 0.10	ppmv	0.10	NA-025	17-Mar-22
22030094-001	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Mar-22
22030094-001	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Mar-22
22030094-001	Methane		5.0	ppmv	0.1	NA-025	17-Mar-22
22030094-001	n-Propane	K, T, U	< 0.10	ppmv	0.10	NA-025	17-Mar-22
22030094-001	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Mar-22
22030094-001	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Mar-22
22030094-001	trans-2-Butene	K, T, U	< 0.13	ppmv	0.13	NA-025	17-Mar-22
22030094-001	2,5-Dimethylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	17-Mar-22
22030094-001	2-Ethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	17-Mar-22
22030094-001	2-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	17-Mar-22
22030094-001	3-Methylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	17-Mar-22

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_842b-20220315	28953	Ambient Air	15-Mar-22	4:40
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	22030094	<b>REPORT CREATED:</b>	04-Apr-22	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
22030094-001	Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	17-Mar-22
22030094-001	Carbon disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-001	Carbonyl sulphide		1.9 ppbv	0.4	NA-024	17-Mar-22
22030094-001	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-001	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-001	Ethyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	17-Mar-22
22030094-001	Ethyl sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	17-Mar-22
22030094-001	Hydrogen sulphide		2.2 ppbv	0.4	NA-024	17-Mar-22
22030094-001	Isobutyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	17-Mar-22
22030094-001	Isopropyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	17-Mar-22
22030094-001	Methyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-001	Pentyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	17-Mar-22
22030094-001	Propyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	17-Mar-22
22030094-001	tert-Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	17-Mar-22
22030094-001	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-001	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	1,1-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	1,1-Dichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	1,2,3-Trimethylbenzene	I	0.09 ppbv	0.07	AC-058	24-Mar-22
22030094-001	1,2,4-Trichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	24-Mar-22
22030094-001	1,2,4-Trimethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	24-Mar-22
22030094-001	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	1,2-Dichlorobenzene	I	0.06 ppbv	0.04	AC-058	24-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

Date: April 4, 2022

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_842b-20220315	28953	Ambient Air	15-Mar-22	4:40
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	22030094	<b>REPORT CREATED:</b>	04-Apr-22	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
22030094-001	1,2-Dichloroethane	I	0.05	ppbv	0.04	AC-058	24-Mar-22
22030094-001	1,2-Dichloropropane	K, T, U	< 0.04	ppbv	0.04	AC-058	24-Mar-22
22030094-001	1,3,5-Trimethylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	24-Mar-22
22030094-001	1,3-Butadiene	K, T, U	< 0.04	ppbv	0.04	AC-058	24-Mar-22
22030094-001	1,3-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Mar-22
22030094-001	1,4-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Mar-22
22030094-001	1,4-Dioxane	K, T, U	< 0.7	ppbv	0.7	AC-058	24-Mar-22
22030094-001	1-Butene/Isobutylene		0.59	ppbv	0.09	AC-058	24-Mar-22
22030094-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.10	ppbv	0.10	AC-058	24-Mar-22
22030094-001	1-Pentene	I	0.05	ppbv	0.04	AC-058	24-Mar-22
22030094-001	2,2,4-Trimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Mar-22
22030094-001	2,2-Dimethylbutane		0.36	ppbv	0.03	AC-058	24-Mar-22
22030094-001	2,3,4-Trimethylpentane	I	0.11	ppbv	0.03	AC-058	24-Mar-22
22030094-001	2,3-Dimethylbutane		0.55	ppbv	0.13	AC-058	24-Mar-22
22030094-001	2,3-Dimethylpentane		0.37	ppbv	0.03	AC-058	24-Mar-22
22030094-001	2,4-Dimethylpentane		0.18	ppbv	0.04	AC-058	24-Mar-22
22030094-001	2-Methylheptane	I	0.06	ppbv	0.03	AC-058	24-Mar-22
22030094-001	2-Methylhexane		0.27	ppbv	0.04	AC-058	24-Mar-22
22030094-001	2-Methylpentane		0.92	ppbv	0.03	AC-058	24-Mar-22
22030094-001	3-Methylheptane	I	0.11	ppbv	0.04	AC-058	24-Mar-22
22030094-001	3-Methylhexane		0.52	ppbv	0.03	AC-058	24-Mar-22
22030094-001	3-Methylpentane		1.38	ppbv	0.03	AC-058	24-Mar-22
22030094-001	Acetone		4.3	ppbv	0.6	AC-058	24-Mar-22
22030094-001	Acrolein	I	0.4	ppbv	0.4	AC-058	24-Mar-22
22030094-001	Benzene		0.50	ppbv	0.04	AC-058	24-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

Date: April 4, 2022

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_842b-20220315	28953	Ambient Air	15-Mar-22 4:40
<b>DESCRIPTION:</b>	NMHC Trigger		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
22030094	04-Apr-22		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
22030094-001	Benzyl chloride	K, T, U	< 0.4 ppbv	0.4	AC-058	24-Mar-22
22030094-001	Bromodichloromethane	K, T, U	< 0.04 ppbv	0.04	AC-058	24-Mar-22
22030094-001	Bromoform	I	0.10 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Bromomethane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Carbon disulfide	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Carbon tetrachloride		0.19 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Chlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Chloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Chloroform	I	0.05 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Chloromethane		0.92 ppbv	0.06	AC-058	24-Mar-22
22030094-001	cis-1,2-Dichloroethene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	cis-1,3-Dichloropropene	K, T, U	< 0.04 ppbv	0.04	AC-058	24-Mar-22
22030094-001	cis-2-Butene	K, T, U	< 0.04 ppbv	0.04	AC-058	24-Mar-22
22030094-001	cis-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Cyclohexane		2.34 ppbv	0.06	AC-058	24-Mar-22
22030094-001	Cyclopentane		0.85 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Dibromochloromethane	I	0.06 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Ethanol		4.2 ppbv	0.7	AC-058	24-Mar-22
22030094-001	Ethyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	24-Mar-22
22030094-001	Ethylbenzene	I	0.20 ppbv	0.04	AC-058	24-Mar-22
22030094-001	Freon-11		0.39 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Freon-113		0.19 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Freon-114	I	0.07 ppbv	0.04	AC-058	24-Mar-22
22030094-001	Freon-12		0.79 ppbv	0.04	AC-058	24-Mar-22
22030094-001	Hexachloro-1,3-butadiene	K, T, U	< 0.4 ppbv	0.4	AC-058	24-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_842b-20220315	28953	Ambient Air	15-Mar-22 4:40
<b>DESCRIPTION:</b>	NMHC Trigger		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
22030094	04-Apr-22		

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
22030094-001	Isobutane		10.7	ppbv	0.04	AC-058	24-Mar-22
22030094-001	Isopentane		5.98	ppbv	0.06	AC-058	24-Mar-22
22030094-001	Isoprene	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Mar-22
22030094-001	Isopropyl alcohol	K, T, U	< 0.4	ppbv	0.4	AC-058	24-Mar-22
22030094-001	Isopropylbenzene	I	0.08	ppbv	0.06	AC-058	24-Mar-22
22030094-001	m,p-Xylene	I	0.17	ppbv	0.06	AC-058	24-Mar-22
22030094-001	m-Diethylbenzene		0.41	ppbv	0.03	AC-058	24-Mar-22
22030094-001	m-Ethyltoluene	I	0.09	ppbv	0.04	AC-058	24-Mar-22
22030094-001	Methyl butyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Mar-22
22030094-001	Methyl ethyl ketone	I	0.7	ppbv	0.4	AC-058	24-Mar-22
22030094-001	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	24-Mar-22
22030094-001	Methyl methacrylate	K, T, U	< 0.12	ppbv	0.12	AC-058	24-Mar-22
22030094-001	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	24-Mar-22
22030094-001	Methylcyclohexane		3.52	ppbv	0.03	AC-058	24-Mar-22
22030094-001	Methylcyclopentane		2.60	ppbv	0.07	AC-058	24-Mar-22
22030094-001	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	24-Mar-22
22030094-001	n-Butane		6.00	ppbv	0.03	AC-058	24-Mar-22
22030094-001	n-Decane	K, T, U	< 0.09	ppbv	0.09	AC-058	24-Mar-22
22030094-001	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	24-Mar-22
22030094-001	n-Heptane	I	0.22	ppbv	0.06	AC-058	24-Mar-22
22030094-001	n-Hexane		1.01	ppbv	0.04	AC-058	24-Mar-22
22030094-001	n-Octane	I	0.13	ppbv	0.03	AC-058	24-Mar-22
22030094-001	n-Pentane		3.14	ppbv	0.06	AC-058	24-Mar-22
22030094-001	n-Propylbenzene	K, T, U	< 0.09	ppbv	0.09	AC-058	24-Mar-22
22030094-001	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	24-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

Date: April 4, 2022

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_842b-20220315	28953	Ambient Air	15-Mar-22 4:40
<b>DESCRIPTION:</b>	NMHC Trigger		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
22030094	04-Apr-22		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
22030094-001	Naphthalene	K, T, U	< 0.4 ppbv	0.4	AC-058	24-Mar-22
22030094-001	n-Nonane	I	0.08 ppbv	0.06	AC-058	24-Mar-22
22030094-001	o-Ethyltoluene	I	0.08 ppbv	0.03	AC-058	24-Mar-22
22030094-001	o-Xylene	I	0.19 ppbv	0.04	AC-058	24-Mar-22
22030094-001	p-Diethylbenzene	I	0.13 ppbv	0.03	AC-058	24-Mar-22
22030094-001	p-Ethyltoluene	K, T, U	< 0.06 ppbv	0.06	AC-058	24-Mar-22
22030094-001	Styrene	I	0.15 ppbv	0.06	AC-058	24-Mar-22
22030094-001	Tetrachloroethylene	I	0.09 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	24-Mar-22
22030094-001	Toluene		1.75 ppbv	0.04	AC-058	24-Mar-22
22030094-001	trans-1,2-Dichloroethylene		1.89 ppbv	0.09	AC-058	24-Mar-22
22030094-001	trans-1,3-Dichloropropylene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	trans-2-Butene		0.39 ppbv	0.04	AC-058	24-Mar-22
22030094-001	trans-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Trichloroethylene	I	0.04 ppbv	0.03	AC-058	24-Mar-22
22030094-001	Vinyl acetate		0.9 ppbv	0.4	AC-058	24-Mar-22
22030094-001	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_842b-Blank	28961	Ambient Air	15-Mar-22 4:40
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
22030094	04-Apr-22		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
22030094-002	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	17-Mar-22
22030094-002	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	17-Mar-22
22030094-002	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	17-Mar-22
22030094-002	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	17-Mar-22
22030094-002	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Mar-22
22030094-002	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	17-Mar-22
22030094-002	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	17-Mar-22
22030094-002	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Mar-22
22030094-002	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Mar-22
22030094-002	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Mar-22
22030094-002	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	17-Mar-22
22030094-002	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Mar-22
22030094-002	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	17-Mar-22
22030094-002	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	17-Mar-22
22030094-002	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-002	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	17-Mar-22
22030094-002	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	17-Mar-22
22030094-002	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-002	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-002	Carbon disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	17-Mar-22
22030094-002	Carbonyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-002	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	17-Mar-22
22030094-002	Dimethyl sulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	17-Mar-22
22030094-002	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-002	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

Date: April 4, 2022

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_842b-Blank	28961	Ambient Air	15-Mar-22 4:40
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
22030094	04-Apr-22		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
22030094-002	Hydrogen sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-002	Isobutyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-002	Isopropyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-002	Methyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	17-Mar-22
22030094-002	Pentyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	17-Mar-22
22030094-002	Propyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	17-Mar-22
22030094-002	tert-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	17-Mar-22
22030094-002	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	17-Mar-22
22030094-002	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	1,1,2-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	1,1-Dichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	24-Mar-22
22030094-002	1,2,4-Trichlorobenzene	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	1,2,4-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	1,2-Dichlorobenzene	I	0.04 ppbv	0.03	AC-058	24-Mar-22
22030094-002	1,2-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	1,2-Dichloropropane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	1,3,5-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	1,3-Butadiene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	1,3-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	24-Mar-22
22030094-002	1,4-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	24-Mar-22
22030094-002	1,4-Dioxane	K, T, U	< 0.5 ppbv	0.5	AC-058	24-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

Date: April 4, 2022

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca



<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_842b-Blank	28961	Ambient Air	15-Mar-22 4:40
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
22030094	04-Apr-22		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
22030094-002	1-Butene/Isobutylene		0.44 ppbv	0.06	AC-058	24-Mar-22
22030094-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07 ppbv	0.07	AC-058	24-Mar-22
22030094-002	1-Pentene	I	0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	2,2,4-Trimethylpentane	I	0.04 ppbv	0.02	AC-058	24-Mar-22
22030094-002	2,2-Dimethylbutane	I	0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	2,3,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	2,3-Dimethylbutane	K, T, U	< 0.09 ppbv	0.09	AC-058	24-Mar-22
22030094-002	2,3-Dimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	2,4-Dimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	2-Methylheptane	I	0.04 ppbv	0.02	AC-058	24-Mar-22
22030094-002	2-Methylhexane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	2-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	3-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	3-Methylhexane	I	0.03 ppbv	0.02	AC-058	24-Mar-22
22030094-002	3-Methylpentane	I	0.04 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Acetone		0.6 ppbv	0.4	AC-058	24-Mar-22
22030094-002	Acrolein	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	Benzene	I	0.12 ppbv	0.03	AC-058	24-Mar-22
22030094-002	Benzyl chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	Bromoform	I	0.07 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Bromomethane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Carbon disulfide	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Carbon tetrachloride	I	0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

Date: April 4, 2022

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_842b-Blank	28961	Ambient Air	15-Mar-22 4:40
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
22030094	04-Apr-22		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
22030094-002	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Chloromethane	K, T, U	< 0.04 ppbv	0.04	AC-058	24-Mar-22
22030094-002	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	cis-1,3-Dichloropropene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Cyclohexane	K, T, U	< 0.04 ppbv	0.04	AC-058	24-Mar-22
22030094-002	Cyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Ethanol	K, T, U	< 0.5 ppbv	0.5	AC-058	24-Mar-22
22030094-002	Ethyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	Ethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Freon-113	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Freon-114	I	0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	Freon-12	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	Hexachloro-1,3-butadiene	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	Isobutane		0.15 ppbv	0.03	AC-058	24-Mar-22
22030094-002	Isopentane	I	0.07 ppbv	0.04	AC-058	24-Mar-22
22030094-002	Isoprene	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Isopropyl alcohol	I	0.4 ppbv	0.3	AC-058	24-Mar-22
22030094-002	Isopropylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	24-Mar-22
22030094-002	m,p-Xylene	K, T, U	< 0.04 ppbv	0.04	AC-058	24-Mar-22
22030094-002	m-Diethylbenzene	I	0.08 ppbv	0.02	AC-058	24-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

Date: April 4, 2022

Inquiries: (780) 632 8455

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
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<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
22030094	04-Apr-22		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
22030094-002	m-Ethyltoluene	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	Methyl butyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	24-Mar-22
22030094-002	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	Methyl isobutyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	Methyl methacrylate	K, T, U	< 0.08 ppbv	0.08	AC-058	24-Mar-22
22030094-002	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	Methylcyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Methylcyclopentane	K, T, U	< 0.05 ppbv	0.05	AC-058	24-Mar-22
22030094-002	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	n-Butane		0.11 ppbv	0.02	AC-058	24-Mar-22
22030094-002	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	24-Mar-22
22030094-002	n-Dodecane	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	n-Heptane	I	0.09 ppbv	0.04	AC-058	24-Mar-22
22030094-002	n-Hexane	I	0.13 ppbv	0.03	AC-058	24-Mar-22
22030094-002	n-Octane		0.11 ppbv	0.02	AC-058	24-Mar-22
22030094-002	n-Pentane	I	0.07 ppbv	0.04	AC-058	24-Mar-22
22030094-002	n-Propylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	24-Mar-22
22030094-002	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	24-Mar-22
22030094-002	Naphthalene	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	n-Nonane	I	0.07 ppbv	0.04	AC-058	24-Mar-22
22030094-002	o-Ethyltoluene	I	0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	o-Xylene	I	0.03 ppbv	0.03	AC-058	24-Mar-22
22030094-002	p-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	p-Ethyltoluene	K, T, U	< 0.04 ppbv	0.04	AC-058	24-Mar-22
22030094-002	Styrene	I	0.10 ppbv	0.04	AC-058	24-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

Date: April 4, 2022

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# ENVIRONMENTAL ANALYTICAL SERVICES

## TEST REPORT

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_842b-Blank	28961	Ambient Air	15-Mar-22 4:40
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	22030094	<b>REPORT CREATED:</b>	04-Apr-22
		<b>VERSION:</b>	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
22030094-002	Tetrachloroethylene	I	0.05 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	Toluene	I	0.06 ppbv	0.03	AC-058	24-Mar-22
22030094-002	trans-1,2-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	24-Mar-22
22030094-002	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	trans-2-Butene		0.20 ppbv	0.03	AC-058	24-Mar-22
22030094-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22
22030094-002	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	24-Mar-22
22030094-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	24-Mar-22

Report certified by: Rebecca Dasilva, Account Coordinator

On behalf of: A. Prefontaine, Manager, Chemical Testing

Date: April 4, 2022

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## ENVIRONMENTAL ANALYTICAL SERVICES

### TEST REPORT

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### Revision History

Order ID	Ver	Date	Reason
22030094	01	04-Apr-22	Report created

## **Methods**

<b>Method</b>	<b>Description</b>
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

22030094

Unknowns to be reported.



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## ENVIRONMENTAL ANALYTICAL SERVICES

### TEST REPORT

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### Sample Comments



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## ENVIRONMENTAL ANALYTICAL SERVICES

### 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.*