



PO Bag 4000
 Vegreville, Alberta
 Canada T9C 1T4
 (780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

RESULTS: Karla Reesor 403 807 2995 Peace River Area Monitoring Program Committee	CLIENT SAMPLE ID PRAMP_986c-20210801 CANISTER ID: 32227 PRIORITY: Normal DESCRIPTION: NMHC Trigger	Matrix Ambient Air
INVOICE: Office Manager	DATE SAMPLED: 01-Aug-21 20:25 REPORT CREATED: 13-Aug-21 REPORT REVISED: 15-Sep-21	DATE RECEIVED: 05-Aug-21 REPORT NUMBER: 21080029 VERSION: Version 02

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21080029-001	1-Butene	K, T, U	< 0.14	ppmv	0.14	NA-025	06-Aug-21
21080029-001	Acetylene	K, T, U	< 0.11	ppmv	0.11	NA-025	06-Aug-21
21080029-001	n-Butane	K, T, U	< 0.3	ppmv	0.3	NA-025	06-Aug-21
21080029-001	cis-2-Butene	K, T, U	< 0.05	ppmv	0.05	NA-025	06-Aug-21
21080029-001	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	06-Aug-21
21080029-001	Ethylacetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	06-Aug-21
21080029-001	Ethylene	K, T, U	< 0.10	ppmv	0.10	NA-025	06-Aug-21
21080029-001	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	06-Aug-21
21080029-001	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	06-Aug-21
21080029-001	Methane	I	0.2	ppmv	0.1	NA-025	06-Aug-21
21080029-001	n-Propane	K, T, U	< 0.10	ppmv	0.10	NA-025	06-Aug-21
21080029-001	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	06-Aug-21
21080029-001	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	06-Aug-21
21080029-001	trans-2-Butene	K, T, U	< 0.12	ppmv	0.12	NA-025	06-Aug-21
21080029-001	2,5-Dimethylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	06-Aug-21
21080029-001	2-Ethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	06-Aug-21
21080029-001	2-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	06-Aug-21
21080029-001	3-Methylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	06-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20210801	32227	Ambient Air	01-Aug-21	20:25
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:	
21080029	13-Aug-21	15-Sep-21	Version 02	

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21080029-001	Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	06-Aug-21
21080029-001	Carbon disulphide		1.6 ppbv	0.3	NA-024	06-Aug-21
21080029-001	Carbonyl sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	06-Aug-21
21080029-001	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	06-Aug-21
21080029-001	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	06-Aug-21
21080029-001	Ethyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	06-Aug-21
21080029-001	Ethyl sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	06-Aug-21
21080029-001	Hydrogen sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	06-Aug-21
21080029-001	Isobutyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	06-Aug-21
21080029-001	Isopropyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	06-Aug-21
21080029-001	Methyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	06-Aug-21
21080029-001	Pentyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	06-Aug-21
21080029-001	Propyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	06-Aug-21
21080029-001	tert-Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	06-Aug-21
21080029-001	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	06-Aug-21
21080029-001	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	1,1-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	1,1-Dichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	1,2,3-Trimethylbenzene		0.17 ppbv	0.07	AC-058	10-Aug-21
21080029-001	1,2,4-Trichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	10-Aug-21
21080029-001	1,2,4-Trimethylbenzene		0.34 ppbv	0.04	AC-058	10-Aug-21
21080029-001	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	1,2-Dichlorobenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20210801	32227	Ambient Air	01-Aug-21	20:25
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:	
21080029	13-Aug-21	15-Sep-21	Version 02	

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21080029-001	1,2-Dichloroethane	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21
21080029-001	1,2-Dichloropropane	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21
21080029-001	1,3,5-Trimethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21
21080029-001	1,3-Butadiene	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21
21080029-001	1,3-Dichlorobenzene	K, T, U	< 0.5 ppbv	0.5	AC-058	10-Aug-21
21080029-001	1,4-Dichlorobenzene	K, T, U	< 0.5 ppbv	0.5	AC-058	10-Aug-21
21080029-001	1,4-Dioxane	K, T, U	< 0.7 ppbv	0.7	AC-058	10-Aug-21
21080029-001	1-Butene/Isobutylene		2.24 ppbv	0.08	AC-058	10-Aug-21
21080029-001	1-Hexene/2-Methyl-1-pentene	I	0.16 ppbv	0.10	AC-058	10-Aug-21
21080029-001	1-Pentene		0.61 ppbv	0.04	AC-058	10-Aug-21
21080029-001	2,2,4-Trimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	2,2-Dimethylbutane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	2,3,4-Trimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	2,3-Dimethylbutane		1.01 ppbv	0.12	AC-058	10-Aug-21
21080029-001	2,3-Dimethylpentane	I	0.05 ppbv	0.03	AC-058	10-Aug-21
21080029-001	2,4-Dimethylpentane	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21
21080029-001	2-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	2-Methylhexane	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21
21080029-001	2-Methylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	3-Methylheptane	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21
21080029-001	3-Methylhexane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	3-Methylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	Acetone		13.8 ppbv	0.5	AC-058	10-Aug-21
21080029-001	Acrolein		1.0 ppbv	0.4	AC-058	10-Aug-21
21080029-001	Benzene	I	0.22 ppbv	0.04	AC-058	10-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20210801	32227	Ambient Air	01-Aug-21	20:25
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:	
21080029	13-Aug-21	15-Sep-21	Version 02	

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21080029-001	Benzyl chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	10-Aug-21
21080029-001	Bromodichloromethane	K, T, U	< 0.04	ppbv	0.04	AC-058	10-Aug-21
21080029-001	Bromoform	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Bromomethane	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Carbon disulfide		0.35	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Carbon tetrachloride	I	0.07	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Chloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Chloroform	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Chloromethane		0.94	ppbv	0.05	AC-058	10-Aug-21
21080029-001	cis-1,2-Dichloroethene	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	cis-1,3-Dichloropropene	K, T, U	< 0.04	ppbv	0.04	AC-058	10-Aug-21
21080029-001	cis-2-Butene	K, T, U	< 0.04	ppbv	0.04	AC-058	10-Aug-21
21080029-001	cis-2-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Cyclohexane	K, T, U	< 0.05	ppbv	0.05	AC-058	10-Aug-21
21080029-001	Cyclopentane	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Dibromochloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Ethanol		10.7	ppbv	0.7	AC-058	10-Aug-21
21080029-001	Ethyl acetate	K, T, U	< 0.4	ppbv	0.4	AC-058	10-Aug-21
21080029-001	Ethylbenzene	I	0.18	ppbv	0.04	AC-058	10-Aug-21
21080029-001	Freon-11		0.21	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Freon-113	I	0.05	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Freon-114	K, T, U	< 0.04	ppbv	0.04	AC-058	10-Aug-21
21080029-001	Freon-12		0.53	ppbv	0.04	AC-058	10-Aug-21
21080029-001	Hexachloro-1,3-butadiene	K, T, U	< 0.4	ppbv	0.4	AC-058	10-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20210801	32227	Ambient Air	01-Aug-21	20:25
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:	
21080029	13-Aug-21	15-Sep-21	Version 02	

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21080029-001	Isobutane	K, T, U	< 0.04	ppbv	0.04	AC-058	10-Aug-21
21080029-001	Isopentane		0.61	ppbv	0.05	AC-058	10-Aug-21
21080029-001	Isoprene		42.7	ppbv	0.08	AC-058	10-Aug-21
21080029-001	Isopropyl alcohol		0.8	ppbv	0.4	AC-058	10-Aug-21
21080029-001	Isopropylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	10-Aug-21
21080029-001	m,p-Xylene	I	0.34	ppbv	0.05	AC-058	10-Aug-21
21080029-001	m-Diethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	10-Aug-21
21080029-001	m-Ethyltoluene	K, T, U	< 0.04	ppbv	0.04	AC-058	10-Aug-21
21080029-001	Methyl butyl ketone	K, T, U	< 0.5	ppbv	0.5	AC-058	10-Aug-21
21080029-001	Methyl ethyl ketone		1.2	ppbv	0.4	AC-058	10-Aug-21
21080029-001	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	10-Aug-21
21080029-001	Methyl methacrylate	K, T, U	< 0.11	ppbv	0.11	AC-058	10-Aug-21
21080029-001	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	10-Aug-21
21080029-001	Methylcyclohexane	I	0.08	ppbv	0.03	AC-058	10-Aug-21
21080029-001	Methylcyclopentane	I	0.08	ppbv	0.07	AC-058	10-Aug-21
21080029-001	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	10-Aug-21
21080029-001	n-Butane		0.55	ppbv	0.03	AC-058	10-Aug-21
21080029-001	n-Decane	K, T, U	< 0.08	ppbv	0.08	AC-058	10-Aug-21
21080029-001	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	10-Aug-21
21080029-001	n-Heptane	I	0.18	ppbv	0.05	AC-058	10-Aug-21
21080029-001	n-Hexane	I	0.16	ppbv	0.04	AC-058	10-Aug-21
21080029-001	n-Octane		0.17	ppbv	0.03	AC-058	10-Aug-21
21080029-001	n-Pentane		0.29	ppbv	0.05	AC-058	10-Aug-21
21080029-001	n-Propylbenzene	K, T, U	< 0.08	ppbv	0.08	AC-058	10-Aug-21
21080029-001	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	10-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986c-20210801	32227	Ambient Air	01-Aug-21	20:25
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:	
21080029	13-Aug-21	15-Sep-21	Version 02	

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21080029-001	Naphthalene	K, T, U	< 0.4 ppbv	0.4	AC-058	10-Aug-21
21080029-001	n-Nonane	K, T, U	< 0.05 ppbv	0.05	AC-058	10-Aug-21
21080029-001	o-Ethyltoluene	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	o-Xylene	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21
21080029-001	p-Diethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	p-Ethyltoluene	K, T, U	< 0.05 ppbv	0.05	AC-058	10-Aug-21
21080029-001	Styrene	K, T, U	< 0.05 ppbv	0.05	AC-058	10-Aug-21
21080029-001	Tetrachloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	10-Aug-21
21080029-001	Toluene		0.36 ppbv	0.04	AC-058	10-Aug-21
21080029-001	trans-1,2-Dichloroethylene		3.50 ppbv	0.08	AC-058	10-Aug-21
21080029-001	trans-1,3-Dichloropropylene	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	trans-2-Butene	K, T, U	< 0.04 ppbv	0.04	AC-058	10-Aug-21
21080029-001	trans-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	Trichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21
21080029-001	Vinyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	10-Aug-21
21080029-001	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	10-Aug-21

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_986c-Blank	28887	Ambient Air	01-Aug-21
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:
21080029	13-Aug-21	15-Sep-21	Version 02

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21080029-002	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	06-Aug-21
21080029-002	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	06-Aug-21
21080029-002	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	06-Aug-21
21080029-002	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	06-Aug-21
21080029-002	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	06-Aug-21
21080029-002	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	06-Aug-21
21080029-002	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	06-Aug-21
21080029-002	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	06-Aug-21
21080029-002	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	06-Aug-21
21080029-002	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	06-Aug-21
21080029-002	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	06-Aug-21
21080029-002	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	06-Aug-21
21080029-002	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	06-Aug-21
21080029-002	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	06-Aug-21
21080029-002	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	05-Aug-21
21080029-002	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	05-Aug-21
21080029-002	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	05-Aug-21
21080029-002	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	05-Aug-21
21080029-002	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	05-Aug-21
21080029-002	Carbon disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	05-Aug-21
21080029-002	Carbonyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	05-Aug-21
21080029-002	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	05-Aug-21
21080029-002	Dimethyl sulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	05-Aug-21
21080029-002	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	05-Aug-21
21080029-002	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	05-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_986c-Blank	28887	Ambient Air	01-Aug-21
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:
21080029	13-Aug-21	15-Sep-21	Version 02

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21080029-002	Hydrogen sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	05-Aug-21
21080029-002	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	05-Aug-21
21080029-002	Isopropyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	05-Aug-21
21080029-002	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	05-Aug-21
21080029-002	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	05-Aug-21
21080029-002	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	05-Aug-21
21080029-002	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	05-Aug-21
21080029-002	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	05-Aug-21
21080029-002	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	1,1-Dichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	09-Aug-21
21080029-002	1,2,4-Trichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	09-Aug-21
21080029-002	1,2,4-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	1,2-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	1,2-Dichloropropane	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	09-Aug-21
21080029-002	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	09-Aug-21
21080029-002	1,4-Dioxane	K, T, U	< 0.5	ppbv	0.5	AC-058	09-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_986c-Blank	28887	Ambient Air	01-Aug-21
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:
21080029	13-Aug-21	15-Sep-21	Version 02

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21080029-002	1-Butene/Isobutylene	K, T, U	< 0.06 ppbv	0.06	AC-058	09-Aug-21
21080029-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07 ppbv	0.07	AC-058	09-Aug-21
21080029-002	1-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	2,2,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	2,2-Dimethylbutane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	2,3,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	2,3-Dimethylbutane	K, T, U	< 0.09 ppbv	0.09	AC-058	09-Aug-21
21080029-002	2,3-Dimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	2,4-Dimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	2-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	2-Methylhexane	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	2-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	3-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	3-Methylhexane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	3-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	Acetone	K, T, U	< 0.4 ppbv	0.4	AC-058	09-Aug-21
21080029-002	Acrolein	K, T, U	< 0.3 ppbv	0.3	AC-058	09-Aug-21
21080029-002	Benzene	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	Benzyl chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	09-Aug-21
21080029-002	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	Bromoform	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	Bromomethane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	Carbon disulfide	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	Carbon tetrachloride	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_986c-Blank	28887	Ambient Air	01-Aug-21
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:
21080029	13-Aug-21	15-Sep-21	Version 02

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21080029-002	Chloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	Chloroform	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	Chloromethane	K, T, U	< 0.04	ppbv	0.04	AC-058	09-Aug-21
21080029-002	cis-1,2-Dichloroethene	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	cis-1,3-Dichloropropene	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	cis-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	cis-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	Cyclohexane	K, T, U	< 0.04	ppbv	0.04	AC-058	09-Aug-21
21080029-002	Cyclopentane	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	Dibromochloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	Ethanol	K, T, U	< 0.5	ppbv	0.5	AC-058	09-Aug-21
21080029-002	Ethyl acetate	K, T, U	< 0.3	ppbv	0.3	AC-058	09-Aug-21
21080029-002	Ethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	Freon-11	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	Freon-113	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	Freon-114	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	Freon-12	K, T, U	< 0.03	ppbv	0.03	AC-058	09-Aug-21
21080029-002	Hexachloro-1,3-butadiene	K, T, U	< 0.3	ppbv	0.3	AC-058	09-Aug-21
21080029-002	Isobutane		0.18	ppbv	0.03	AC-058	09-Aug-21
21080029-002	Isopentane	K, T, U	< 0.04	ppbv	0.04	AC-058	09-Aug-21
21080029-002	Isoprene	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21
21080029-002	Isopropyl alcohol	K, T, U	< 0.3	ppbv	0.3	AC-058	09-Aug-21
21080029-002	Isopropylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	09-Aug-21
21080029-002	m,p-Xylene	K, T, U	< 0.04	ppbv	0.04	AC-058	09-Aug-21
21080029-002	m-Diethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	09-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_986c-Blank	28887	Ambient Air	01-Aug-21
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:
21080029	13-Aug-21	15-Sep-21	Version 02

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21080029-002	m-Ethyltoluene	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	Methyl butyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	09-Aug-21
21080029-002	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	09-Aug-21
21080029-002	Methyl isobutyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	09-Aug-21
21080029-002	Methyl methacrylate	K, T, U	< 0.08 ppbv	0.08	AC-058	09-Aug-21
21080029-002	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	Methylcyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	Methylcyclopentane	K, T, U	< 0.05 ppbv	0.05	AC-058	09-Aug-21
21080029-002	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	09-Aug-21
21080029-002	n-Butane		0.13 ppbv	0.02	AC-058	09-Aug-21
21080029-002	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	09-Aug-21
21080029-002	n-Dodecane	K, T, U	< 0.3 ppbv	0.3	AC-058	09-Aug-21
21080029-002	n-Heptane	K, T, U	< 0.04 ppbv	0.04	AC-058	09-Aug-21
21080029-002	n-Hexane	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	n-Octane	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	n-Pentane	K, T, U	< 0.04 ppbv	0.04	AC-058	09-Aug-21
21080029-002	n-Propylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	09-Aug-21
21080029-002	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	09-Aug-21
21080029-002	Naphthalene	K, T, U	< 0.3 ppbv	0.3	AC-058	09-Aug-21
21080029-002	n-Nonane	K, T, U	< 0.04 ppbv	0.04	AC-058	09-Aug-21
21080029-002	o-Ethyltoluene	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	o-Xylene	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	p-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	p-Ethyltoluene	K, T, U	< 0.04 ppbv	0.04	AC-058	09-Aug-21
21080029-002	Styrene	K, T, U	< 0.04 ppbv	0.04	AC-058	09-Aug-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: September 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_986c-Blank	28887	Ambient Air	01-Aug-21
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	REPORT CREATED:	REPORT REVISED:	VERSION:
21080029	13-Aug-21	15-Sep-21	Version 02

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21080029-002	Tetrachloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	09-Aug-21
21080029-002	Toluene	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	trans-1,2-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	09-Aug-21
21080029-002	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	trans-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	09-Aug-21
21080029-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21
21080029-002	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	09-Aug-21
21080029-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	09-Aug-21



PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Revision History

Order ID	Ver	Date	Reason
21080029	01	13-Aug-21	Report created
21080029	02	15-Sep-21	21080029-001Methane result revised

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



PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Page 16 of 18

Order Comments

21080029

Invoice also to: Karla Reesor, pramptech@prampairshed.ca. Unknowns to be reported.



PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Page 17 of 18

Sample Comments



PO Bag 4000
Vegreville, Alberta
Canada T9C 1T4
(780) 632-8211

ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Page 18 of 18

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.*