Reference Information

Additional Comments for Sample Listed:

Samplenum	Matrix	Report Remarks	Sample Comments

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)
L-IC-VA	Dustfall	Dustfall Chloride by Ion Chromatography	BC LAB MAN. - PART. - SOLUBLE - ANIONS

The Dustfall analysis is carried out in accordance with the B.C. Laboratory Manual method 'Particulate - Total' and 'Particulate - Soluble - Anions and Cations by Ion Chromatography'. The chloride analysis is specifcially carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

USTFALLS-COM-DM2-VA	Dustfall	Combined Dustfalls-Total, soluble, insol	BCMOE DUSTFALLS

Dustfall analysis is carried out in accordance with procedures published by the B.C. Ministry of Environment Laboratory.

HG-DUST(DM2-CVAFS-VA	Dustfall	Total Mercury in Dustfalls by CVAFS	EPA 245.7

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by cold vapour atomic fluorescence spectrophotometry (EPA Method 245.7).

MET-DUST(DM2)-ICP-VA	Dustfall	Total Metals in Dustfalls by ICPOES	EPA 6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

MET-DUST(DM2)-MS-VA	Dustfall	Total Metals in Dustfalls by ICPMS	EPA 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

NH3-COL-VA	Dustfall	Dustfall Ammonia by Colour	BC LAB MAN. - PART. - SOLUBLE - ANIONS

The Dustfall analysis is carried out in accordance with the B.C. Laboratory Manual method 'Particulate - Total' and 'Particulate - Soluble - Anions and Cations by Ion Chromatography'. The ammonia analysis is specifcially carried out using procedures adapted from APHA Method 4500-NH3 "Nitrogen (Ammonia)". Ammonia is determined using the phenate colourimetric method.

NO3-IC-VA	Dustfall	Dustfall Nitrate by Ion Chromatography	BC LAB MAN. - PART. - SOLUBLE - ANIONS

The Dustfall analysis is carried out in accordance with the B.C. Laboratory Manual method 'Particulate - Total' and 'Particulate - Soluble - Anions and Cations by Ion Chromatography'. The nitrate analysis is specifcially carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

SO4-IC-VA	Dustfall	Dustfall Sulphate by Ion Chromatography	BC LAB MAN. - PART. - SOLUBLE - ANIONS

The Dustfall analysis is carried out in accordance with the B.C. Laboratory Manual method 'Particulate - Total' and 'Particulate - Soluble - Anions and Cations by Ion Chromatography'. The sulphate analysis is specifcially carried out using procedures adapted from APHA Method 4110 "Determination of Anions by Ion Chromatography" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.
The last two letters of the above ALS Test Code column indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
VA	ALS LABORATORY GROUP - VANCOUVER, BC, CANADA		

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Analytical Method Reference(Based On)

LOSSARY OF REPORT TERMS
urr - A surrogate is an organic compound that is similar to the target analyte(s) in chemical composition and behavior but not normally detected in nvironmental samples. Prior to sample processing, samples are fortified with one or more surrogate compounds.
he reported surrogate recovery value provides a measure of method efficiency.
g/kg (units) - unit of concentration based on mass, parts per million
g/L (units) - unit of concentration based on volume, parts per million
/A - Result not available. Refer to qualifier code and definition for explanation

est results reported relate only to the samples as received by the laboratory.
NLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
lthough test results are generated under strict QA/QC protocols, any unsigned test reports, faxes, or emails are considered preliminary.

LS Laboratory Group has an extensive QA/QC program where all analytical data reported is analyzed using approved referenced procedures followed by hecks and reviews by senior managers and quality assurance personnel. However, since the results are obtained from chemical measurements and thus annot be guaranteed, ALS Laboratory Group assumes no liability for the use or interpretation of the results.

Appendix 4

Standard Operation Procedure for Partisol Ambient Air Quality Samplers

Rescan™
Engineers and Scientists

STANDARD OPERATING PROCEDURE (SOP) FOR HOPE BAY BELT PROJECT – BASELINE AMBIENT AIR QUALITY MONITORING FOR PARTICULATE MATTER (TSP, PM10 and PM2.5)

Project # 1009-002-02

Thermo 2025 D Sequential Dichotomous Partisol®-Plus

Thermo 2025 Partisol®-Plus

TABLE OF CONTENTS

List of Appendices

List of Plates

PLATE **PAGE**

1. FILTER HANDLING, EXCHANGE and SHIPPING

1.1 PREPARING THE FILTER CASSETTE MAGAZINE

Place the filters (in cassettes) coming from the laboratory into an empty magazine. These Teflon filters (47 mm diameter, Pull flex TX-40) were pre-weighted at the laboratory and placed in numbered cassettes. The metal part should be facing down when you are placing cassettes in the magazines. (Plate 1.1-1).

Plate 1.1-1. Placing filter cassettes in a magazine.

1.2 INSTALLING A FILTER CASSETTE MAGAZINE

There are 2 Thermo Scientific Partisol ambient air quality samplers for suspended particulate matter monitoring in the shelter. When you open the doors, the sampler on the left hand side is being used for total suspended particulate (TSP) sampling (Partisol Plus 2025 TSP Sampler) and the width of this sampler is relatively smaller than the other one and this width difference can be distinguished by eye. The instrument has one sampling compartment which uses two magazines (Plate 1.2-1). The left hand side will contain unused filter cassettes and the used filters will be stored on the right hand side.

Plate 1.2-1. Thermo Partisol 2025 TSP Sampler.

New filter cassettes are always placed in the left magazine, and the used filter cassettes in the right hand side magazine. Remove the tubing connected to the bottom of both magazines; the metal clip on the tubing should be pressed to unlock the connection. No tools are necessary for this change out.

Remove the existing magazines by pushing gently up and than moving counter clockwise until it releases itself and place the magazine, which contains used filters, in a transport container (Plate 1.2-2).

Plate 1.2-2. Transport Container (left) and placing the magazine (right).

After securing the samples (filter loaded cassettes) in transport container, install the new magazine (which contains the unused filter cassettes) by matching the notches in the filter cassette magazine with the mounting studs on the sampler. Push the magazine upward and rotate clockwise to lock it into place.

Ensure that the cassette magazines are labeled prior to installation in the sampler because there are different magazines that sample different types of particulate matter – for this sampler all samples are for total suspended particulate (TSP). Record the serial numbers of the cassettes (Plate 1.2-3) in the

order you placed them in the magazine. The filter numbers will be entered in the software program by using the LCD screen. Instructions for the software program are available below in Section 2.

Plate 1.2-3. Cassette serial numbers to be recorded and entered in the software.

The other Partisol ambient air quality sampler (Partisol PLUS Sequnetial Dichotomous Model #2025D) is located on the right hand side of the enclosure. This Partisol had 2 compartments because it samples both PM10 and PM2.5. These compartments have identical functionality with the Partisol 2025 TSP sampler. The difference is the PM10 inlet (Plate 1.2-4) at the end of the + 2 meter high sampling tubes above the roof of the outdoor enclosure.

Plate 1.2-4. The sampling inlets (TSP on left and PM10/PM2.5 on right).

Fill out the chain of custody with sampling date and volumes and send the filter cassettes in a weather proof hard case to;

Maxxam Analytics
Hope Bay Project (1009-002-02) – Partisol Filters
9331 - 48 Street, Edmonton, Alberta T6B 2R4
Tel: (780) 577-7100

2. SOFTWARE OVERVIEW

2.1 MODES OF OPERATION

Plate 2.1-1 summarizes the information displayed on the first "page" of the LCD screen. However, the flow rate will be 16.7 l/min for the Partisol 2025 TSP sampler and 15 / 1.67 l/min for the Sequential Dichotomous 2025D ($PM_{2.5}$/ PM_{10}) sampler. The mode will be "Wait" because this Project follows the NAPS (National Air Pollution Surveillance) schedule from Environment Canada. This means that the air samplers will work 24 hours every 6 days therefore if you don't visit during a 24-hr sampling period, you will always see the "wait" mode displayed.

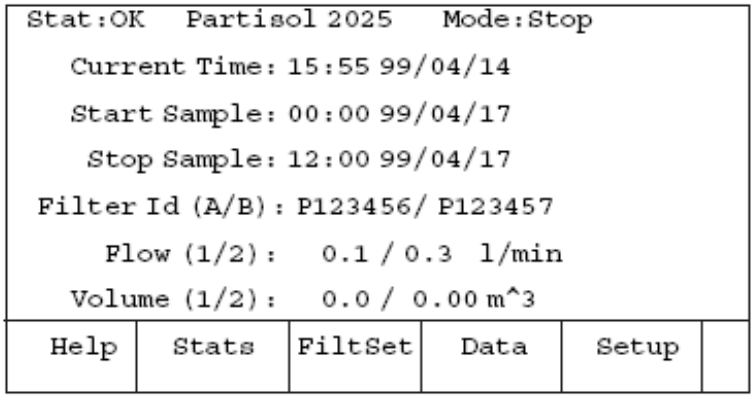

Plate 2.1-1. Stand-by screen display.

Navigating among screens is done using the keypad. In order to edit, you should switch to "Stop" mode from "Wait" mode, which is displayed on top right corner of the screen, by using run/stop button on the left bottom button on the keypad (Plate 2.1-2). Since the software is already programmed, the user will only use the instrument to enter filter names. Always remember to swith "wait" mode by pressing lower-left button (Run/Stop) before leaving the shelter, otherwise the system will not operate and partisol sampler will be on standby mode.

Once samples are collected in the right hand side filter magazine, make sure to fill in the data sheet in Appendix A and send it to the laboratory with the samples and the chain of custody. To determine the actual total volume of air sampled (m^3) press <F4> Data and then press "filter data screen".

Plate 2.1-3 summarizes the sampling data for filter "P 123456" with an actual sampled volume of 6 m^3 on Apr 11, 1999. This information is to be filled in Appendix A form for laboratory calculations.

The filters will be weighted at the accredited laboratory (Section 1.2), and the actual volume of air sampled will enable the laboratory staff to calculate the mass concentration of particulate matter in ambient air.

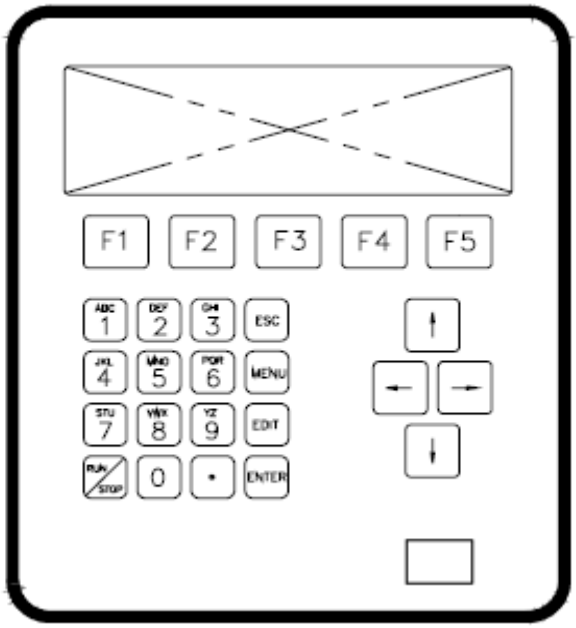

Plate 2.1-2. Partisol Keypad.

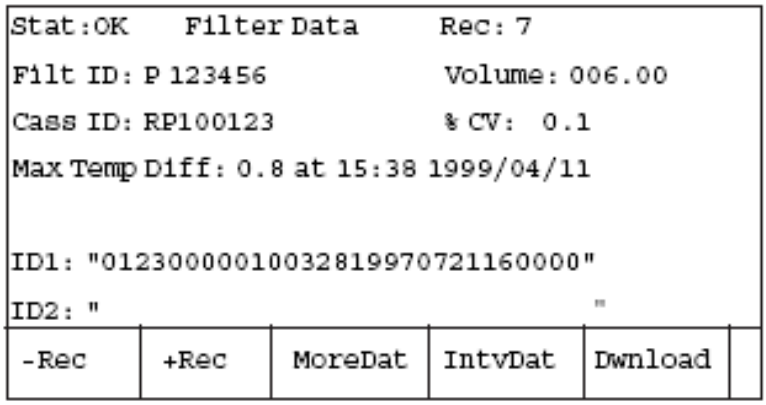

Plate 2.1-3. Filter information screen.

2.2 BASIC FILTER SETUP SCREEN

The Partisol ambient air quality sampling schedule is synchronized with Environment Canada NAPS. The 2009 NAPS schedule is provided in Appendix B.

NAPS requires 24-hour sampling every 6 days. This sample frequency is already programmed in both Partisols therefore no further programming is necessary. The memory keeps the sampling program even there is a power failure.

After removing the magazine full of used filters and installing a magazine of new filters (Plate 2.2-1), the new filter numbers should be entered on the field data sheet (Appendix A) in order to get statistical data in the future, such as actual total volume of air sampled.

Plate 2.2-1A. 2025D Sequential Dichotomous ambient air quality sampler - Left side magazine loaded with new filters and right side magazine for used filters. The front magazines are for PM10 and the back magazines are for PM2.5.

To enter filter names (numbers), press setup <F5> on the main screen (Plate 2.2-1B). (If you think you're not on the main screen, please press ESC button until you reach the main screen).

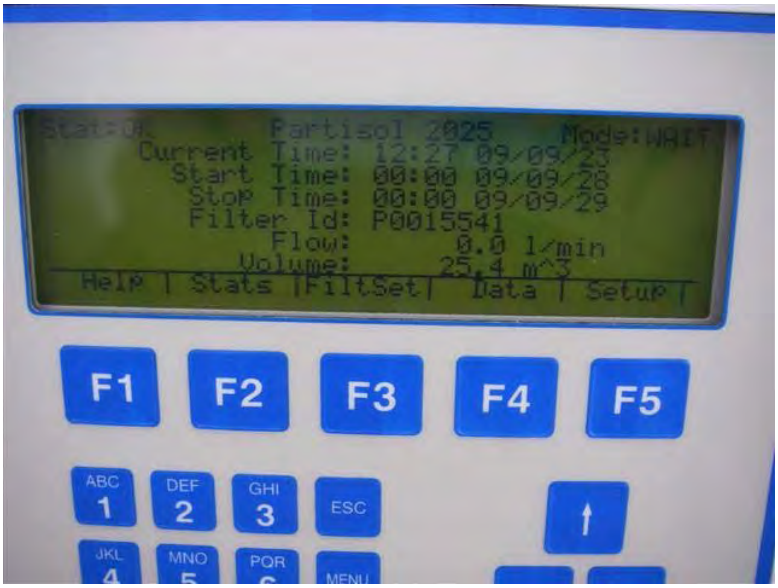

Plate 2.2-1B Main Screen

Then select the filter list setup screen, you will see a list to be edited. Press the edit button and enter the name (number) of new filters in order. Remember that last filter you put in the magazine will be number 1 in this list.

You should also remind that front magazines are for coarse particulates (PM10 minus PM2.5) and rear magazines are for fine particulates (PM2.5). The same types of filters are used for both the PM10 and PM2.5 sampling. The only important point is to record which ones were at the rear (PM2.5) and at the front (PM10) in the form at Appendix A. Make sure you know the order of filters installed in magazine so if you made a mistake entering a filter name, data can be gathered by using date and time data. The easiest way of gathering data is to take pictures of records on the screen (Plate 2.2-2). As it is seen on Plate 2.2-2, the 6th filter in the magazine was sampled on September 22, 2009 with a total volume of 25.4 m^3.

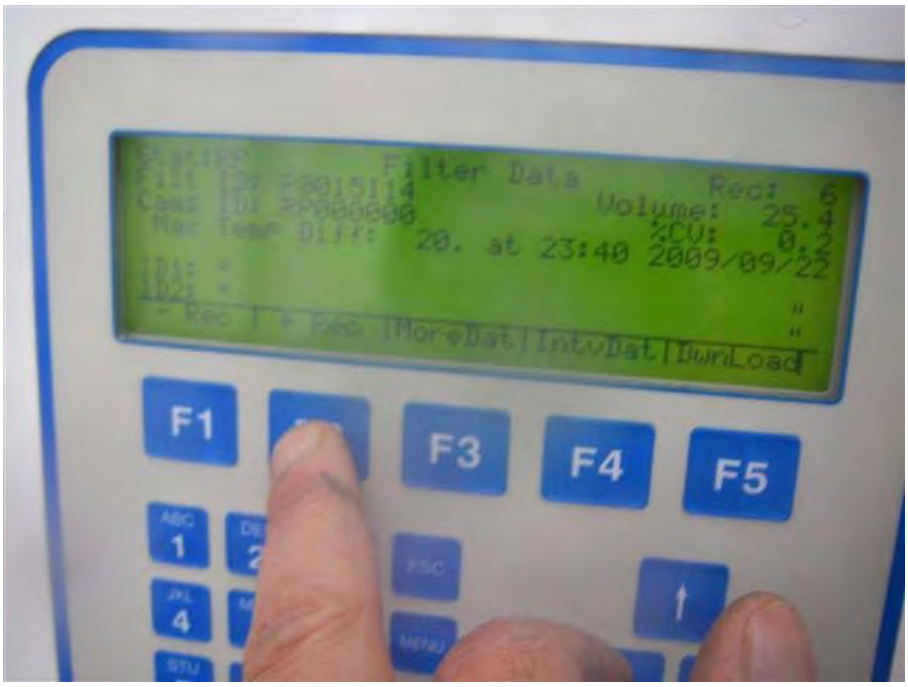

Plate 2.2-2 The sample information screen (after <f3> filtsetup on main screen)

The TSP model 2025 Partisol PLUS sampler has only one compartment (Plate 2.3-1). Both Partisol samplers have the same system for organizing the filters in the left magazine contains new filters and right magazine contains (or will contain) used filters.

As a summary, the operation needs attention to 2 important factors.
1. Taking the used filters with their sampling date and total volume.
2. Installing new filters and recording their filter names in order

Your shelter visit will be step by step as the following;
- Never visit the shelter during an operation day (NAPS scheduled) because the sampler is running.
- Take the used filters and write down on the magazine their compartment (TSP, Coarse-PM10 or Fine-PM2.5).
- Take pictures of the sampling records (see example as in Plate 2.2-2)
- Install new magazines and don't forget to hook up air pumping tubing.
- Press <Run/Stop> button on left bottom corner of the keypad, and than once you see "Stop" on right top corner of the LCD screen, enter filter names. And than make sure pressing <Run/Stop> button and see "Wait" mode on the screen before you leave.

2.3 OPERATION AFTER POWER FAILURE

In the event of a power failure settings are not changed, the operation will continue when power comes back. The system lots a "Z" condition to mark the power failure. Depending upon how much time has passed, the unit will perform a filter exchange until it reaches the next filter scheduled to sample. It then either begins sampling or enters the Wait Operating Mode to await the start of the next sequential sample. If the unit begins sampling, the "Z" status condition will be retained in the current record of filter data. However, if the unit enters the Wait Operating Mode, the unit will automatically clear the "Z" status condition.

Therefore, the operator does not need to make any special programming changes but has to record the power failure date and time in the form in Appendix A.

Plate 2.3-1. Thermo 2025 TSP Sampler. The left hand magazine contains new filters and the right hand magazine contains used filters.

3. SECTION 3 - AUDIT

Because these parameters determine the flow rate used to calculate the TSP, PM10 and PM2.5 concentrations, a leak check, flow verification and temperature check should be performed periodically.

3.1 LEAK CHECK

To determine if there are any air leaks, a filter cassette containing a new 47 mm filter must be installed in the sampling position of the sampler. Then the following procedures should be followed:

1. Attach the flow audit adapter to the sample tube and close the valve on the flow audit adapter (Plate 3.1-1).

Plate 3.1-1. Flow audit adapter.

2. While in the Audit screen, press LeakChk <F5> to display the Leak Check screen. Press <F2> Start, and follow the instructions displayed on the screen.
3. A "Pass" or "Fail" message will display at the end of the leak check cycle. A pressure drop of 25 mm Hg or less is the Partisol air sampler's leak check pass criteria.
4. If a "Fail" message is displayed, insert a new 47 mm filter into a filter cassette and place it in the topmost position of the audit magazine. Usually previously used cassettes may cause a leak problems because of damages caused during opening and closing. Make sure the cassettes are tightened properly. Press <F4: FiltAdv> to move the new filter into sampling position. Repeat the leak check procedure.
5. If a "Fail" message is again displayed, perform the troubleshooting procedures detailed in the Service Manual.

6. If a "Pass" message is displayed, slowly open the valve on the flow audit adapter. Record the leak check results on the calibration and maintenance record (Appendix A).
7. Remove the flow audit adapter from the sample tube.

3.2 FLOW VERIFICATION

A leak test and temperature check should be done before verification of air flow. The ambient air temperature readings should be ± 2 °C of the Partisols readings.

1. Remove the 2 m extension tube, and place the short sampling tube (Plate 3.2-1). A Streamline FTS Flow Transfer Standard is used for verification. If necessary, remove the flow audit adapter (Plate 11) and install the FTS on the sample tube (Plate 3.2-1).
2. Press <F5: Audit> to enter the Audit screen. Confirm that 15.0 l/min and 1.67 l/min are the set flows in the Set Flow field. Press <F2: Valve 1> and then <F1: Pump>. Wait for the flow rate displayed in the Cur Flow column to stabilize.
3. If using the FTS, press <EDIT>, enter the pressure drop (inches H2O) from the Digital Manometer display, and then press <ENTER>. The sampler will calculate and display the FTS volumetric air flow rate. Follow steps 4a) to 7a) below for the Sequential Dichotomous 2025D air sampler. Follow steps 4b) to 6b) below for the Partisol PLUS 2025 ambient air sampler.

Plate 3.2-1. Sample tube and the flow verifier.

If you are auditing the Sequential Dichotomous 2025D sampler:

- When using the flow audit adapter, ensure that the first variable in the Cur Flow field is close to 15.0 l/min. The measured flow should be within ± 5% of the displayed Cur Flow.
- Press <F3: Valve 2> and <F1: Pump>. Wait for the flow rate displayed in the Cur Flow column to stabilize.
- If using the FTS, press <EDIT>, enter the pressure drop (inches H2O) from the Digital Manometer display, and then press <ENTER>. The sampler will calculate and display the FTS volumetric flow.

- When using the flow audit adapter, ensure that the second variable in the Cur Flow field is close to 1.67 l/min. The measured flow should be within ± 5% of the displayed Cur Flow. If this is not the case, perform the flow rate calibration procedure described in the Service Manual. Press <F1: Pump> and <F3: Valve 2> to turn off the pump. Record the results of the flow verification on the maintenance/calibration data sheet (Appendix A).

<u>If you are auditing the Partisol PLUS 2025 (TSP) sampler:</u>

- When using the flow audit adapter, ensure that the first variable in the Cur Flow field is close to 16.7 l/min. The measured flow should be within ± 5% of the displayed Cur Flow.
- Press <F3: Valve 2> and <F1: Pump>. Wait for the flow rate displayed in the Cur Flow column to stabilize.
- When using the FTS, press <EDIT>, enter the pressure drop (inches H2O) from the Digital Manometer display, and then press <ENTER>. The sampler will calculate and display the FTS volumetric flow. Record the results of the flow verification on the maintenance/calibration data sheet (Appendix A).

Appendix A

Thermo Partisol Ambient Air Sampler Calibration Record
Hope Bay Belt Project, Nunavut (#1009-002-02)

Date : _____
Time : _____
Personnel(s) : _____

Temperature (°C) at weather station : _____
Barometric Pressure (kPa) at weather station : _____

Circle One : Partisol 2025D Sequential Dichotomous Air Sampler S/N 99-004728-0120
Partisol 2025 Partisol Plus Air Sampler S/N 99-004724-0120

MAIN MENU	
Partisol Sampler Date (YY-MMM-DD)	:
Partisol Sampler Time (0.00 – 24.00)	:
Status (normal value is "OK")	:
Is it in "RUN" mode? (top right hand corner of screen)	: Y / N
Next Sampling Date (DD-MMM) (right hand side of screen under the column "Date")	:

AUDIT SCREEN	
Ambient Temperature (°C)	:
Ambient Pressure (atm.)	:
* The difference between these two readings should not be below half the value of #1 * To convert kPa to atm, multiply by 0.009869. Ambient Press must be within +/-0.02 atm.	

LEAK TEST	
1. Vacuum gauge reading with flow control value closed. (Inch/Hg)	:
2. Vacuum gauge reading with both flow control manual valve and pump manual value (Inch/Hg)	:
* The difference between these two readings should not be below half the value of #1	

FLOW AUDIT	
– Streamline FTS S/N	: 57-004506-0001
– Streamline FTS calibration date:	:
– m =	:
– b =	:
– Average Reading of FTS (Inches of water)	:
* FTS Flow should be within ±5% of 16.7 l/min	

Note: The serial # can be found inside of the door or on the side of the filter / sampling compartment.

2009

National Air Pollution Surveillance Network

2009 High-Volume, PM10 SSI, and Dichotomous Partisol Sampling Schedule

Réseau National de Surveillance de la Pollution Atmosphérique

Échantillonneurs à Grand Débit, MP SSI, et Dichotomique: l'horaire 2009

Thursday	1-Jan-09	jeudi
Wednesday	7-Jan-09	mercredi
Tuesday	13-Jan-09	mardi
Monday	19-Jan-09	lundi
Sunday	25-Jan-09	dimanche
Saturday	31-Jan-09	samedi
Friday	6-Feb-09	vendredi
Thursday	12-Feb-09	jeudi
Wednesday	18-Feb-09	mercredi
Tuesday	24-Feb-09	mardi
Monday	2-Mar-09	lundi
Sunday	8-Mar-09	dimanche
Saturday	14-Mar-09	samedi
Friday	20-Mar-09	vendredi
Thursday	26-Mar-09	jeudi
Wednesday	1-Apr-09	mercredi
Tuesday	7-Apr-09	mardi
Monday	13-Apr-09	lundi
Sunday	19-Apr-09	dimanche
Saturday	25-Apr-09	samedi
Friday	1-May-09	vendredi
Thursday	7-May-09	jeudi
Wednesday	13-May-09	mercredi
Tuesday	19-May-09	mardi
Monday	25-May-09	lundi
Sunday	31-May-09	dimanche
Saturday	6-Jun-09	samedi
Friday	12-Jun-09	vendredi
Thursday	18-Jun-09	jeudi
Wednesday	24-Jun-09	mercredi
Tuesday	30-Jun-09	mardi

Monday	6-Jul-09	lundi
Sunday	12-Jul-09	dimanche
Saturday	18-Jul-09	samedi
Friday	24-Jul-09	vendredi
Thursday	30-Jul-09	jeudi
Wednesday	5-Aug-09	mercredi
Tuesday	11-Aug-09	mardi
Monday	17-Aug-09	lundi
Sunday	23-Aug-09	dimanche
Saturday	29-Aug-09	samedi
Friday	4-Sep-09	vendredi
Thursday	10-Sep-09	jeudi
Wednesday	16-Sep-09	mercredi
Tuesday	22-Sep-09	mardi
Monday	28-Sep-09	lundi
Sunday	4-Oct-09	dimanche
Saturday	10-Oct-09	samedi
Friday	16-Oct-09	vendredi
Thursday	22-Oct-09	jeudi
Wednesday	28-Oct-09	mercredi
Tuesday	3-Nov-09	mardi
Monday	9-Nov-09	lundi
Sunday	15-Nov-09	dimanche
Saturday	21-Nov-09	samedi
Friday	27-Nov-09	vendredi
Thursday	3-Dec-09	jeudi
Wednesday	9-Dec-09	mercredi
Tuesday	15-Dec-09	mardi
Monday	21-Dec-09	lundi
Sunday	27-Dec-09	dimanche
Saturday	2-Jan-10	samedi

Maxxam Analytics Inc

Calgary: 2021-41st Ave. NE, T2E 6P2. Ph: (403) 291-3077, Fax: (403) 291-9468, Toll free: (800) 386-7247
Edmonton: 9619 - 42 Ave, T6E 5R2. Ph: (780) 465-1212, Fax: (780) 450-4187, Toll free: (877) 465-8889
Burnaby: 8577 Commerce Court, V5A 4N5 Ph: (604) 444-4808, Fax (604) 444-4511, Toll free: (800) 440-4808

ANALYTICAL REQUEST FORM

Invoice To: Require Report? Yes [X] No [ ]

Company Name:	Rescan Environmental Services Ltd.
Contact Name:	Michelle Van Wyck
Address:	600 - 1111 West Hastings Street
	Vancouver, B.C. PC: V6E 2J3
Phone / Fax#:	Ph: (604) 689-9460 Fax: (604) 687-4277

Report To:

Rescan Enviornmental Services Ltd.	
Dan Jarratt, P.Eng.	
600 - 1111 West Hastings Street	
Vancouver, B.C. PC: V6E 2J3	
Ph: (604) 689-9460 Fax: (604) 687-4277	

PO# / AFE#:	
Quotation #:	
Project # :	1009-002-02
Proj. Name:	**Hope Bay Belt Environmental Baseline Study**
Location:	Nunavut, Canada
Sampler's Initials:	__

REGULATORY REQUIREMENTS:

- [ ] AT1 - Soil Contamination
- [ ] CCME
- [ ] CCME FWAL
- [ ] Regulatory Limits to appear on Final report
- [ ] PST
- [ ] CDWQG
- [ ] G50

REPORT DISTRIBUTION:

- [ ] Mail
- [ ] Fax
- [X] PDF
- [X] Excel
- [ ] Other:
- [X] Email: djarratt@rescan.com

SERVICE REQUESTED:

- [ ] RUSH (Please ensure you contact the lab)
  Date Required:
- [X] REGULAR Turnaround

METALS: (WATERS)

- [ ] Total
- [ ] Extractable
- [ ] Dissolved

ANALYSIS REQUESTED

	Sample Identification	Matrix	Date/Time Sampled	Sample Type Grab/Comp	Hold > 60 Days	Sample Container #	Particulate mass (PM2.5)	Particulate mass (PM10)	Particulate mass (TSP)
1	23890	47 mm filter	3-Jul-08	Continuous	Y		X		
2	23891	47 mm filter	3-Jul-08	Continuous	Y			X	
3	23892	47 mm filter	3-Jul-08	Continuous	Y				X
4	23893	47 mm filter	9-Jul-08	Continuous	Y		X		
5	23894	47 mm filter	9-Jul-08	Continuous	Y			X	
6	23895	47 mm filter	9-Jul-08	Continuous	Y				X
7	23896	47 mm filter	15-Jul-08	Continuous	Y		X		
8	23897	47 mm filter	15-Jul-08	Continuous	Y			X	
9	23898	47 mm filter	15-Jul-08	Continuous	Y				X
10	23899	47 mm filter	21-Jul-08	Continuous	Y		X		
11	23900	47 mm filter	21-Jul-08	Continuous	Y			X	
12	23901	47 mm filter	21-Jul-08	Continuous	Y				X

** For water samples, please indicate if sample container has been preserved (P) and/or filtered (F).

Relinquished By: Mr. ____ _____ **Date/Time:** **September 8, 2008**

Signature:

COMMENTS/SPECIAL INSTRUCTIONS: these are 47 mm diameter filters from a Partisol air sampler, the attached note indicates volume of air filtered & sample time for each

Received

Temperature

C of C #