File #	Original File Name
1	PAC2001_LNEL_ALN_S+O-ISOT-PM2.5_HIVOL_20010814D16_V1.csv

	Principal Investigator	•	File Contents	As Reported	Sampling Frequency Of Data in	Quality			Study Or		
Standard Version	Namelast first	Investigator Affiliation	Descriptionshort long	in Main Table	Main Table	Control Level	Organization Acronym	Organization Name	Network Acronym		Country Code
	Norman ; Dr. Ann-Lise	Department of Physics & Astronomy, University of Calgary	PM_2.5_S+O_isot ; Particulate	8 h	Variable frequency		U of C	University of	 PAC2001	Pacific	CA (CANADA)

State Or Province Code		Co-investigator Namelast first	Co-investigator Affiliation	Name And Affiliation	To Data In	Used To Create	Companion File Name format And	archive	Table Explanation Of Zero Or Negative Values
	Dr. A.L. Norman, Physics & Astronomy, University of Calgary, AB, T2N 1N4, Canda annlisen@phas.ucalgary.ca	None ; None		Dr. A.L. Norman, Physics & Astronomy, University of Calgary		MS Excel/97	None ; 0	,	No zero values or negative values appear in the data in this file.

Table Explanation Of Reported Detection Limit Values	Table Explanation Of Reported Uncertainty		User	Table User Note3	User	Table	Table Focus
All valid measurements are reported. Detection limits are based on the standard deviation for replicate measurements of a sample. Peak areas <20 % of a benchmark defined by a standard analyzed onthe same day are used to identify samples below detection limits and these samples are flagged V1. The standard deviation for replicate measurements of a sample below detection limits are plus/minus 1 permil for S isotopes and plus/minus 2 permil for Oxygen. Results for sampled which registered less than 10% of the peak area for the benchmark are not reported.	Unknown	Humidity control: manual control < 98 % RH (the site operator was instructed to turn off the High Vol in the event or mist or rain [>98%RH]).	None			S+O Isotopes PM 2.5: day_night	Surfacefixed

Site Information

Site ID	Name	State Province code		Longitude: decimal degree	above	elevation above		Site location setting		Measurement end date		Study site ID	Lat lon accuracy
PC01CABCLNEL	Langley	BC	49.028900	-122.602500	2.0	94.0	Agricultural	Rural	2001/08/14		Temperature, wind direction, wind speed, relative humidity		

Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
M1	Missing value because no value is available
M2	Missing value because invalidated by data originator
V0	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated value
V3	Valid interpolated value
V4	Valid value despite failing to meet some QC or statistical criteria
V5	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
V6	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
V7	Valid value but set equal to the detection limit (DL) because the measured value was below the DL

NAtChem Time Series Plot 21MAR2005

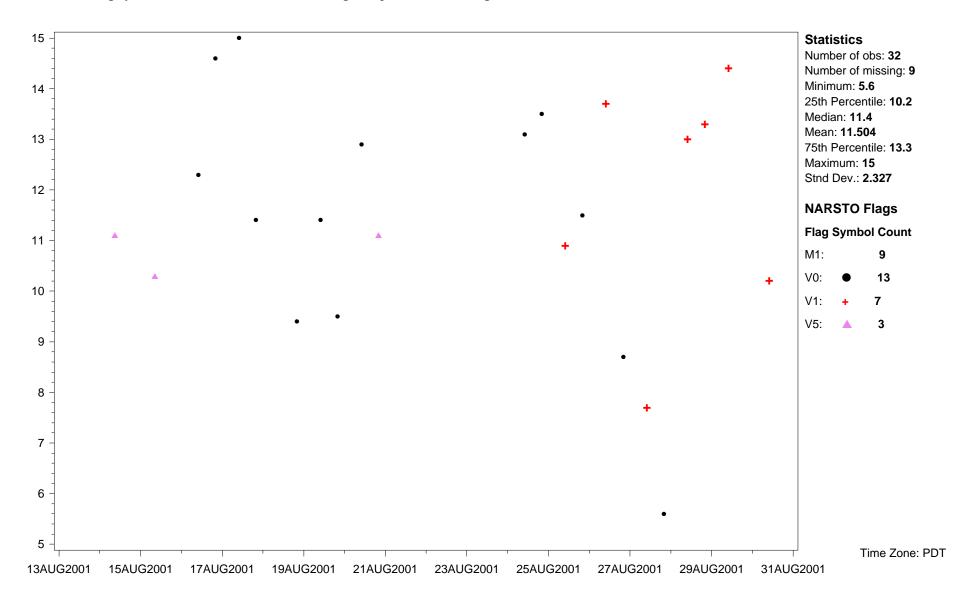
Site ID: PC01CABCLNEL Variable name: Oxygen isotope of sulphate (delta 180 of SO4) Units: 0/00 Sampling interval: 8 h day/12 h night Sampling frequency: Variable frequency Observation type: Particles Particle diameter--lower bound (UM): 0.03

Particle diameter--upper bound (UM): 2.5 Particle diameter--median (UM): Undetermined Field sampling or measurement principle: Single filter Medium: Glass fiber Inlet type: Hat or hood Sampling humidity or temperature control: Other Laboratory analytical method: IRMS

Sample preparation: Water extraction Blank Correction: Blank corrected Volume standardization: 25 deg. C; 1 atmosphere

Sampling Height above ground (m): 2 Instrument name and model number: WSAG1200.2.5-Sierra Miscu Detection Limit: 1

Site Name: Langley, British Columbia Latitude: 49.0289 deg. Longitude: -122.6025 deg. Start Date: 2001-08-14 End Date: 2001-08-31



NAtChem Time Series Plot 21MAR2005

Site ID: PC01CABCLNEL Variable name: Sulphur isotope of sulphate (delta 34S of SO4) Units: 0/00 Sampling interval: 8 h day/12 h night Sampling frequency: Variable frequency Observation type: Particles Particle diameter--lower bound (UM): 0.03

Particle diameter--upper bound (UM): 2.5 Particle diameter--median (UM): Undetermined Field sampling or measurement principle: Single filter Medium: Glass fiber Inlet type: Hat or hood Sampling humidity or temperature control: Other Laboratory analytical method: IRMS Sample preparation: Water extraction Blank Correction: Blank corrected Volume standardization: 25 deg. C; 1 atmosphere Sampling Height above ground (m): 2 Instrument name and model number: WSAG1200.2.5-Sierra Miscu Detection Limit: 0.5

Site Name: Langley, British Columbia Latitude: 49.0289 deg. Longitude: -122.6025 deg. Start Date: 2001-08-14 End Date: 2001-08-31

