

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1207-13
FROM	Dianne Theriault	SHIFT:	0900 to 1430
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	20 th October, 2008		Terry Smith, ALL-TECH
		STPA NO.	PS-0084

**SUBJECT: 17th October, 2008, Real-time Air Monitoring Results
Sydney Tar Ponds Agency – South Pond Pilot Study
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 17th of October, 2008. Reg Peters and Tyler Rowe of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities.

Weather conditions on the day of sampling:

- Overcast, morning showers
- Temperature: approximately 8°C
- Wind Direction: North

Comments: *ALL-TECH was on-Site at 0900 and sampling began as soon as weather was within instrument specifications. Air monitoring was performed during EarthTech's construction activities.*

All downwind and upwind measurements of PM₁₀ were below the established Site Action Level for this parameter of 155 µg/m³.

All downwind and upwind measurements of Total Volatile Organic Compounds (TVOC) were below the established Site Action Level for this parameter of 0.66 ppm. Each measurement is the average of a 15 minute sample. A minimum of 2 samples were taken downwind and 1 sample upwind every hour. All measurements were found to be below the detection limit of the instrument. Levels above detection limit will be noted in the table below.

Due to operational criteria, during periods of precipitation (snow and rain) and high humidity, TVOC sampling is halted and resumes after the precipitation has ended.

This report has been prepared by Tyler Rowe and reviewed by Dianne Theriault. If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,



Dianne Theriault, B.Tech
Environmental Technologist
ALL-TECH Environmental Services Cape Breton Ltd.

Copied via e-mail:

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Real-time Airborne PM₁₀ Concentration Results
Sydney Tar Ponds Agency – South Pond Pilot Study
17th October, 2008

Sample No. & Air Monitoring Location	Time of Day	PM ₁₀ Action Level (µg/m ³)	Average Result (µg/m ³)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
1 30m Southwest of Inglis Street and Spar Road intersection	1100	155	5	North	Upwind	Background	No observations seen to affect sampling integrity
2 150m Northeast of Acadian Lines terminal	1100	155	5	North	Downwind	Boom truck operating	No observations seen to effect sampling integrity
3 150m Northeast of Acadian Lines terminal	1130	155	3	North	Downwind	Boom truck operating	No observations seen to effect sampling integrity
4 30m Southwest of Inglis Street and Spar Road intersection	1200	155	5	North	Upwind	Background	No observations seen to affect sampling integrity
5 150m Northeast of Acadian Lines terminal	1200	155	4	North	Downwind	Crane operating	No observations seen to effect sampling integrity
6 150m Northeast of Acadian Lines terminal	1245	155	2	North	Downwind	Crane operating	No observations seen to effect sampling integrity
7 30m Southwest of Inglis Street and Spar Road intersection	1300	155	3	North	Upwind	Background	No observations seen to affect sampling integrity

Sample No. & Air Monitoring Location	Time of Day	PM ₁₀ Action Level (µg/m ³)	Average Result (µg/m ³)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
8 150m Northeast of Acadian Lines terminal	1300	155	1	North	Downwind	Crane operating	No observations seen to effect sampling integrity
9 150m Northeast of Acadian Lines terminal	1345	155	5	North	Downwind	No activity observed on site	No observations seen to effect sampling integrity

Notes: Air sample duration for each monitoring event was 15 minutes.

Comparison of Downwind Daily Results for Dust Budget

Location	Duration	Dust Budget Value (µg/m ³)	Dust Budget Exceedance Value (µg/m ³)
150m Northeast of Acadian Lines terminal	1100 to 1159	4	990
150m Northeast of Acadian Lines terminal	1200 to 1259	7	990
150m Northeast of Acadian Lines terminal	1300 to 1359	10	990

VOC Monitoring

Monitoring Method	Yes	No
Sustained Odours Observed		•
P.I.D. Required	•	