

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1151-08
FROM	Peter Ibrahim	SHIFT:	0730 to 1500
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	16 th June, 2008		Terry Smith, ALL-TECH
		STPA NO.	CO6II-0008

**SUBJECT: 13th June, 2008, Real-time Air Monitoring Results
Sydney Tar Ponds Agency – Coke Ovens Infrastructure Investigation
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 13th of June, 2008. Tyler Rowe and Dwayne Timmons of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities.

Weather conditions on the day of sampling:

- Overcast, rain
- Temperature: approximately 10°C
- Wind Direction: North

Comments: *ALL-TECH was on-Site at 0730 and sampling began as soon as EarthTech began site activity. Sampling activities were suspended at 1300 due to precipitation and remained on standby until they were terminated for the day at 1500.*

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 Peter Ibrahim and Dianne Theriault. If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,



Peter Ibrahim

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 – Coke Ovens Infrastructure Investigation
13th June, 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 Frederick Street, 20m East of Lingan Road	0845	155	17	North	Upwind	Background	No observations seen to effect sampling integrity
2 200 m East of Salvation Army	0845	155	11	North	Downwind	Excavator operating	No observations seen to effect sampling integrity
3 Frederick Street, 20m East of Lingan Road	0900	155	7	North	Upwind	Background	No observations seen to effect sampling integrity
4 200 m East of Salvation Army	0900	155	10	North	Downwind	Excavator operating	No observations seen to effect sampling integrity
5 200 m East of Salvation Army	0926	155	10	North	Downwind	Excavator operating	No observations seen to effect sampling integrity
6 Frederick Street, 20m East of Lingan Road	1000	155	8	North	Upwind	Background	No observations seen to effect sampling integrity
7 170 m East of Salvation Army	1000	155	17	North	Downwind	Excavator operating	No observations seen to effect 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
8 170 m East of Salvation Army	1038	155	16	North	Downwind	Excavator operating	No observations seen to effect sampling integrity
9 Frederick Street, 20m East of Lingan Road	1100	155	6	North	Upwind	Background	No observations seen to effect sampling integrity
10 170 m East of Salvation Army	1100	155	9	North	Downwind	Excavator operating	No observations seen to effect sampling integrity
11 170 m East of Salvation Army	1116	155	12	North	Downwind	Excavator operating	No observations seen to effect sampling integrity
12 Frederick Street, 20m East of Lingan Road	1200	155	8	North	Upwind	Background	No observations seen to effect sampling integrity
13 170 m East of Salvation Army	1200	155	14	North	Downwind	Excavator operating	No observations seen to effect sampling integrity
14 170 m East of Salvation Army	1235	155	15	North	Downwind	Excavator operating	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 ($\mu\text{g}/\text{m}^3$)	Dust Budget Exceedance Value ($\mu\text{g}/\text{m}^3$)
200 m East of Salvation Army	0800 to 0859	11	990
200 m East of Salvation Army	0900 to 0959	21	990
170 m East of Salvation Army	1000 to 1059	38	990
170 m East of Salvation Army	1100 to 1159	49	990
170 m East of Salvation Army	1200 to 1259	64	990

VOC Monitoring

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