

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1244-04
FROM	Dianne Theriault	SHIFT:	0630 to 1230
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA Wilfred Kaiser, STPA Terry Smith, ALL-TECH
FAX	(902) 539-3381		
DATE	6 th December, 2008	STPA NO.	COCW-0019

**SUBJECT: 5th December, 2008, Real-time Air Monitoring Results
Sydney Tar Ponds Agency – Coke Ovens Vertical Cutoff Walls
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 5th of December, 2008. Tyler Rowe and Alison Giovannetti of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities.

Weather conditions on the day of sampling:

- Overcast with showers
- Temperature: approximately 3°C
- Wind Direction: Northwest

Comments: *ALL-TECH was on-Site at 0630 and sampling began as soon as there was site activity, but was put on standby at 0900 and later ended for the day at 1230, due to ongoing precipitation. 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 Alison Giovannetti 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 – Coke Ovens Vertical Cutoff Walls
5th December, 2008

Sample No. & Air Monitoring Location	Time of Day	PM₁₀ Action Level (µg/m³)	Average Result (µg/m³)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
1 25m S of Spar and Spar Rd. ext intersection along fence	0700	155	10	Northwest	Upwind	Background	No observations seen to affect sampling integrity
2 Railway tracks, 60m SW of Spar Rd.	0700	155	12	Northwest	Downwind	No activity observed on site	No observations seen to effect sampling integrity
3 Railway tracks, 60m SW of Spar Rd.	0745	155	14	Northwest	Downwind	No activity observed on site	No observations seen to effect sampling integrity
4 25m S of Spar and Spar Rd. ext intersection along fence	0800	155	21	Northwest	Upwind	Background	No observations seen to affect sampling integrity
5 Railway tracks, 60m SW of Spar Rd.	0800	155	24	Northwest	Downwind	No activity observed on site	No observations seen to effect sampling integrity
6 Railway tracks, 60m SW of Spar Rd.	0825	155	27	Northwest	Downwind	Dump truck operating	No observations seen to effect sampling integrity
7 5m N of Spar and Spar Rd. ext intersection along fence	0900	155	16	Northwest	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 Railway tracks, 60m SW of Spar Rd.	0900	155	18	Northwest	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 (µg/m ³)	Dust Budget Exceedance Value (µg/m ³)
Railway tracks, 60m SW of Spar Rd.	0700 to 0759	13	990
Railway tracks, 60m SW of Spar Rd.	0800 to 0859	39	990
Railway tracks, 60m SW of Spar Rd.	0900 to 0959	57	990

VOC Monitoring

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