

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1234-02
FROM	Dianne Theriault	SHIFT:	0730 to 1130
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA Wilfred Kaiser, STPA Terry Smith, ALL-TECH
FAX	(902) 539-3381		
DATE	17 th November, 2008	STPA NO.	COCW-0002

**SUBJECT: 15th November 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 15th of November, 2008. Dianne Theriault and Jennifer Andrews of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities.

Weather conditions on the day of sampling:

- Cloudy with rain showers
- Temperature: approximately 10°C
- Wind Direction: Southwest to Southeast

Comments: *ALL-TECH was on-Site at 0730 and sampling began as soon as there was site activity. Air monitoring was put on standby at 0930, and ended for the day at 1130 due to ongoing precipitation. Air monitoring was performed during EarthTech's construction activities.*

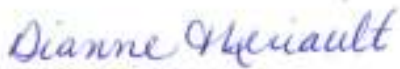
All downwind and upwind measurements of PM₁₀ were below the established Site Action Level for this parameter of 155 µg/m³.

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 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:

Shawn Bernon shawn@tarpondscleanup.ca, Wilfred Kaiser wilfred@tarpondscleanup.ca, Nancy LeDrew nancy@tarpondscleanup.ca, Trish Magliaro trish@tarpondscleanup.ca, Terry Smith tsmith@toalltech.com, Phyllis Low pilow@toalltech.com, Dianne Theriault dtheriault@toalltech.com, Darren Gardiner dgardiner@croworld.com, Darren Lawless dlawless@toalltech.com, Kevin MacPherson kevinmacp@cbcl.ca, Kathy Harquail kharquail@toalltech.com

Real-time Airborne PM₁₀ Concentration Results
Sydney Tar Ponds Agency – Coke Ovens Vertical Cutoff Walls
15th November, 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 10m East of Victoria Road bridge along railway	0800	155	13	Southwest	Upwind	Background	No observations seen to affect sampling integrity
2 30m East of Victoria Road bridge, along Sparr Road	0800	155	14	Southwest	Downwind	Excavator and dozer operating	No observations seen to effect sampling integrity
3 70m East of Victoria Road bridge, along Sparr Road	0840	155	17	Southeast	Downwind	Excavator and dozer operating	No observations seen to effect sampling integrity
4 10m East of Victoria Road bridge along railway	0900	155	10	Southeast	Upwind	Background	No observations seen to affect sampling integrity
5 70m East of Victoria Road bridge, along Sparr Road	0900	155	17	Southeast	Downwind	Excavator and dozer operating	No observations seen to effect sampling integrity
6 70m East of Victoria Road bridge, along Sparr Road	0920	155	12	Southeast	Downwind	Excavator and dozer 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 ($\mu\text{g}/\text{m}^3$)
30m East of Victoria Road bridge, along Sparr Road / 70m East of Victoria Road bridge, along Sparr Road	0800 to 0859	16	990
70m East of Victoria Road bridge, along Sparr Road	0900 to 0959	30	990

VOC Monitoring

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