

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1114-04
FROM	Grant Harrigan	SHIFT:	1600 to 1700
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	4 th April, 2008		Terry Smith, ALL-TECH
		STPA NO.	CP-0115

**SUBJECT: 3rd April 2008, Real-time Air Monitoring Results
Sydney Tar Ponds Agency – Cooling Pond
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 3rd of April, 2008. Colin MacIsaac of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities for the Asphalt Pad.

Weather conditions on the day of sampling:

- Clear Skies
- Temperature: approximately 1°C (data unavailable from Environment Canada)
- Wind Direction: Northwest

Comments: *ALL-TECH began monitoring the activity at 1600 for one hour. 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), TVOC sampling is halted and resumes after the precipitation has ended.

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

Sincerely,



Grant Harrigan, 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 – Cooling Pond
3rd April, 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 20m Southeast of Ferry Street, Walker Street intersection	1605	155	12	Northwest	Upwind	Background	No observations seen to effect sampling integrity
2 70m Southwest of Cooling Pond main gate	1630	155	12	Northwest	Downwind	No activity observed	Dust clouds moving off site
3 70m Southwest of Cooling Pond main gate	1645	155	11	Northwest	Downwind	No activity observed	Dust clouds moving off site

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)
70m Southwest of Cooling Pond main gate	1600 to 1659	12	990

VOC Monitoring

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