

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1074-28
FROM	Grant Harrigan	SHIFT:	0830 to 1230
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	4 th March, 2008		Terry Smith, ALL-TECH
		STPA NO.	CP-0085

**SUBJECT: 29th February 2008, (Revised) Real-time Air Monitoring Results
Sydney Tar Ponds Agency – Cooling Ponds
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 29th of February, 2008. Colin MacIsaac and Tyler Rowe 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: -11°C (data unavailable from Environment Canada)
- Wind Direction: Northwest to North

Comments: ALL-TECH was on-Site at 0830 and sampling began as soon as there was Site activity. Air monitoring was performed during EarthTech's construction activities.

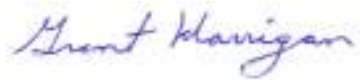
All downwind and upwind measurements of PM₁₀ were well below the established Site Action Level for this parameter of 155 µg/m³.

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. 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 Ponds
29th February, 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 70m Northwest of Spar Road, Inglis Street intersection	0900	155	6	Northwest	Upwind	Background	Varying winds from Northwest to North
2 50m Southeast of Cooling Ponds main gate	0900	155	66	Northwest	Downwind	Excavator moving material to dump trucks	Dust from traffic on Spar Road
3 50m Southeast of Cooling Ponds main gate	0915	155	77	Northwest	Downwind	Excavator moving material to dump trucks	Dust from traffic on Spar Road
4 70m Northwest of Spar Road, Inglis Street intersection	0930	155	6	Northwest	Upwind	Background	Varying winds from Northwest to North
5 70m Northwest of Spar Road, Inglis Street intersection	1000	155	4	Northwest	Upwind	Background	Varying winds from Northwest to North
6 50m Southeast of Cooling Ponds main gate	1000	155	23	Northwest	Downwind	Excavator moving material to dump trucks	Dust from traffic on Spar Road
7 50m Southeast of Cooling Ponds main gate	1035	155	22	Northwest	Downwind	Excavator moving material to dump trucks	Dust from traffic on Spar Road

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 70m Northwest of Spar Road, Inglis Street intersection	1100	155	4	North	Upwind	Background	No observations seen to effect sampling integrity
9 20m Northwest of Inglis Street, Terminal Road intersection	1100	155	3	North	Downwind	Activity site not visible from downwind location	No observations seen to effect sampling integrity
10 20m Northwest of Inglis Street, Terminal Road intersection	1140	155	6	North	Downwind	Activity site not visible from downwind location	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)
50m Southeast of Cooling Ponds main gate	0900 to 0959	72	990
50m Southeast of Cooling Ponds main gate	1000 to 1059	95	990
20m Northwest of Inglis Street and Terminal Road intersection	1100 to 1159	100	990

VOC Monitoring

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