

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1165-02
FROM	Dianne Theriault	SHIFT:	1030 to 1545
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	8 th July, 2008		Terry Smith, ALL-TECH
		STPA NO.	CP-0152

**SUBJECT: 8th July, 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 8th of July, 2008. Donald MacIsaac and Nigel MacLean of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities.

Weather conditions on the day of sampling:

- Clear
- Temperature: approximately 28°C
- Wind Direction: West

Comments: *ALL-TECH was on-Site at 1030 when activity was observed on the Cooling Pond site. Air monitoring was performed during EarthTech's construction activities.*

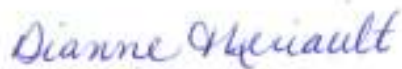
All downwind and upwind measurements of PM₁₀ were below the established Site Action Level for this parameter of 155 µg/m³.

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 Donald MacIsaac 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 – Cooling Pond
8th July, 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 35m North of STPA building doors	1130	155	58	W	DW	Excavator Operating	No observations seen to effect sampling integrity
2 35m North of STPA building doors	1145	155	52	W	DW	Excavator Operating	No observations seen to effect sampling integrity
3 10m South of Intercolonial St. Monitoring Station	1155	155	123	W	UW	Background	Trucks Unloading Fill Nearby
4 35m North of STPA building doors	1205	155	46	W	DW	No activity observed on-site	No observations seen to effect sampling integrity
5 35m North of STPA building doors	1245	155	38	W	DW	Excavator Operating	No observations seen to effect sampling integrity
6 75m South of Intercolonial St. Monitoring Station	1250	155	48	W	UW	Background	Trucks Unloading Fill Nearby

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
7 35m North of STPA building doors	1305	155	37	W	DW	Excavator Operating	No observations seen to effect sampling integrity
8 35m North of STPA building doors	1330	155	37	W	DW	Excavator Operating	No observations seen to effect sampling integrity
9 75m South of Intercolonial St. Monitoring Station	1345	155	82	W	UW	Background	Trucks Unloading Fill Nearby
10 35m North of STPA building doors	1400	155	35	W	DW	Excavator Operating	No observations seen to effect sampling integrity
11 75m South of Intercolonial St. Monitoring Station	1445	155	59	W	UW	Background	Trucks Unloading Fill Nearby
12 35m North of STPA building doors	1445	155	35	W	DW	No activity observed on-site	No observations seen to effect sampling integrity
13 75m South of Intercolonial St. Monitoring Station	1500	155	104	W	UW	Background	Trucks Unloading Fill Nearby

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 ($\mu\text{g}/\text{m}^3$)
10m South of Intercolonial St. Monitoring Station	1100 - 1159	55	990
75m South of Intercolonial St. Monitoring Station	1200 - 1259	97	990
75m South of Intercolonial St. Monitoring Station	1300 - 1359	134	990
75m South of Intercolonial St. Monitoring Station	1400 - 1459	169	990

VOC Monitoring

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