

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1225-11
FROM	Dianne Theriault	SHIFT:	0730 to 1230
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	18 th November, 2008		Terry Smith, ALL-TECH
		STPA NO.	TP2-0055

**SUBJECT: 18th November, 2008, Real-time Air Monitoring Results
Sydney Tar Ponds Agency – Material Processing Facility
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 18th of November, 2008. Colin MacIsaac 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, rain
- Temperature: approximately -1°C
- Wind Direction: East

Comments: *ALL-TECH was on-Site at 0730 and sampling began as soon as there was site activity, but was put on standby at 0930, and was concluded for the day at 1230 due to ongoing precipitation. Air monitoring 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 – Material Processing Facility
18th 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 50m East of Midland Building	0800	155	33	East	Downwind	Excavators in operation	No observations seen to effect sampling integrity
2 80m North of Ferry and Spar Intersection	0810	155	20	East	Upwind	Background	No observations seen to affect sampling integrity
3 50m East of Midland Building	0815	155	29	East	Downwind	Excavators in operation	No observations seen to effect sampling integrity
4 80m North of Ferry and Spar Intersection	0900	155	18	East	Upwind	Background	No observations seen to affect sampling integrity
5 50m East of Midland Building	0900	155	21	East	Downwind	Excavators in operation	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 ($\mu\text{g}/\text{m}^3$)
50m East of Midland Building	0800 to 0859	31	990
50m East of Midland Building	0900 to 0959	52	990

VOC Monitoring

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