

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1128-08
FROM	Grant Harrigan	SHIFT:	0630 to 1030
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	22 st May, 2008		Terry Smith, ALL-TECH
		STPA NO.	PS-0008

**SUBJECT: 20th May 2008, Real-time Air Monitoring Results
Sydney Tar Ponds Agency – North Pond Pilot Study
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 20th of May, 2008. Donald MacIsaac and Reg Peters of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities.

Weather conditions on the day of sampling:

- Overcast
- Temperature: approximately 9°C
- Wind Direction: West

Comments: *ALL-TECH was on-Site at 0630 and there was no Site activity and sampling was halted as soon as it was discovered that there was no site activity for the remainder of the day.*

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 Peter Ibrahim. 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:

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 pjlow@toalltech.com, Dianne Theriault dtheriault@toalltech.com, Darren Gardiner dgardiner@croworld.com, Darren Lawless dlawless@toalltech.com, Kevin Mac Pherson kevinmacp@cbcl.ca, Kathy Harquail kharquail@toalltech.com

Real-time Airborne PM₁₀ Concentration Results
Sydney Tar Ponds Agency – North Pond Pilot Study
20th May, 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 100m North West of Ferry Street Bridge	0715	155	19	West	Upwind	No Activity	No observations seen to effect sampling integrity
2 120m North West of Spar Road & Inglis Street intersection	0710	155	14	West	Downwind	No Activity	No observations seen to effect sampling integrity
3 120m North West of Spar Road & Inglis Street intersection	0730	155	17	West	Downwind	No Activity	No observations seen to effect sampling integrity
4 100m North West of Ferry Street Bridge	0815	155	22	West	Upwind	No Activity	No observations seen to effect sampling integrity
5 120m North West of Spar Road & Inglis Street intersection	0800	155	20	West	Downwind	No Activity	No observations seen to effect sampling integrity
6 120m North West of Spar Road & Inglis Street intersection	0830	155	21	West	Downwind	No Activity	No observations seen to effect sampling integrity

Comparison of Downwind Daily Results for Dust Budget

Location	Duration	Dust Budget Value ($\mu\text{g}/\text{m}^3$)	Dust Budget Exceedance Value ($\mu\text{g}/\text{m}^3$)
120m NW of Spar & Inglis intersection	0700 to 0759	16	990
120m NW of Spar & Inglis intersection	0800 to 0859	37	990

VOC Monitoring

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