

Dust Monitoring Summary Report

Toronto Transit Commission

Ashbridges Bay LFLRV Maintenance and Storage Facilities

Reporting Date: September 8, 2011

Monitoring Period: 25 Aug - 31 Aug, 2011

Dust (PM10) Monitoring Results

PM10 : Particulate Matter, less than 10 micrometres in diameter.

µg/m³ : Micrograms per cubic metre;
a unit of measure for concentration in air.

Date	24 Hour Average, All Stations		Station(s) Where 24h Average >50 µg/m ³ *	Predominant Wind Direction	Comments
	Minimum (µg/m ³)	Maximum (µg/m ³)			
25-Aug-11	12	46	-	W	
26-Aug-11	3	37	-	NNE	
27-Aug-11	20	53	Dust 3	ESE / NW	Potential influences from both off-site and on-site sources.
28-Aug-11	5	39	-	NW	
29-Aug-11	10	41	-	WNW / ESE	
30-Aug-11	29	104	Dust 3, 4, 6, 7, 8	SSE	Potential influences from both off-site and on-site sources.
31-Aug-11	26	115	Dust 1, 3, 4, 8	NNE	Potential influences from both off-site and on-site sources.

* 50 µg/m³ is the interim Ontario Ministry of the Environment Ambient Air Quality Criteria (AAQC).

Wind direction is reported by the direction from which it originates.

Data were collected from eight (8) dust monitoring stations equipped with TSI DustTrak DRX Aerosol Monitors that measure airborne fine particulate matter (PM10). The monitors are located along the perimeter of the excavation area for the purpose of monitoring on site dust levels during the excavation activities. Ellis-Don/SPL Beatty have provided this data under contract to TTC.

In cases where exceedances are measured, additional dust control measures are applied.

Dust Monitoring Summary Report

Toronto Transit Commission

Ashbridges Bay LFLRV Maintenance and Storage Facilities

Reporting Date: September 2, 2011
Monitoring Period: 1 Sep - 5 Sep, 2011

Dust (PM10) Monitoring Results

PM10 : Particulate Matter, less than 10 micrometres in diameter.

µg/m³ : Micrograms per cubic metre;
 a unit of measure for concentration in air.

Date	24 Hour Average, All Stations		Station(s) Where 24h Average >50 µg/m ³ *	Predominant Wind Direction	Comments
	Minimum (µg/m ³)	Maximum (µg/m ³)			
1-Sep-11	33	129	Dust 1, 3, 4, 6, 8	NE / NNE	Potential influences from both off-site and on-site sources. Elevated concentrations at upwind stations (Dust 3,4) indicative of PM ₁₀ from off-site.
2-Sep-11	55	155	Dust 1, 2, 3, 4, 5, 6, 7, 8	NE / WNW	Potential influences from both off-site and on-site sources. Elevated concentrations at upwind stations (Dust 2,3,4) indicative of PM ₁₀ from off-site.
3-Sep-11	73	150	Dust 1, 3, 4, 5, 6, 7, 8	SSW / S / SE	Potential on-site sources.
4-Sep-11	31	125	Dust 1, 3, 4, 8	S	Potential on-site sources.
5-Sep-11	4	96	Dust 1, 3, 4	WNW	Elevated upwind stations (Dust 3,4) indicative of PM ₁₀ influences from off-site sources.

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Wind direction is reported by the direction from which it originates.

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