



10th November 2009

Administration,
Licensing Unit,
Office of Climate Change,
Licensing & Resources Use,
Environmental Protection Agency Headquarters,
PO Box 3000, Johnstown Castle Estate,
County Wexford
ATT: Ms Orla Harrington

**WASTE LICENCE APPLICATION (W0267-01)
HI-VOLT IRELAND LIMITED**

Dear Ms Harrington,

I am acting under the instruction of my client Hi-Volt Ireland Limited (Hi-Volt).

Further to the meeting at the Hi-Volt facility at Ballyduff, Thurles, Co. Tipperary (29th October 2009), please see the below clarification as requested.

- The application area is 10,100 m² (1.01 hectare). The current facility is 1.2 hectare (as to the application for Waste Permit WP/TN/53); and
- As specified in the application, samples were taken from the two groundwater wells on 20th January 2009 (GW-1 and GW-2). The samples were tested and the results are attached.

Also to clarify, please use the below address for further correspondence in regard to this application.

Yours sincerely,

Bridin Mulhall

Bridín Mulhall MSc. AIEMA
[2B Milltown Drive, Churchtown, Dublin 14]

cc: Mr. Richard Gleeson, Hi-Volt Ireland Limited

Water Quality - Hi-Volt Ireland Limited

(20th Jan 2009)

| Parameter | GWS-01 | GWS-02 |
|---|---------|---------|
| Conductivity ($\mu\text{scm-1@25}^\circ\text{C}$) | 534 | 697 |
| pH | 7.45 | 7.40 |
| COD (mg/l) | <15 | <15 |
| Total Alkalinity as CaCO_3 | 270 | 260 |
| Ammoniacal Nitrogen as N (mg/l) | 1.0 | <0.2 |
| Dissolved Calcium Low Level (mg/l) | 56.34 | 109.10 |
| Chloride (mg/l) | 15 | 10 |
| Dissolved Iron Low Level (mg/l) | 0.013 | 0.022 |
| Dissolved Magnesium Low Level (mg/l) | 26.54 | 20.31 |
| Dissolved Manganese Low Level (mg/l) | 0.257 | 0.005 |
| Orthophosphate as PO_4 (mg/l) | <0.03 | <0.03 |
| Dissolved Potassium (mg/l) | 1.1 | 1.1 |
| Dissolved Sodium (mg/l) | 8 | 6.6 |
| Sulphate (mg/l) | 7 | 9 |
| Sulphide (mg/l) | <0.01 | <0.01 |
| Dissolved Arsenic Low Level (mg/l) | <0.001 | <0.004 |
| Dissolved Cadmium Low Level (mg/l) | <0.0004 | <0.0004 |
| Dissolved Copper Low Level (mg/l) | <0.001 | 0.002 |
| Dissolved Mercury Low Level (mg/l) | <0.0005 | <0.0005 |
| Dissolved Vanadium Low Level (mg/l) | <1 | <1 |
| Dissolved Zinc Low Level (mg/l) | 0.013 | 0.011 |
| Total Cyanide (mg/l) | <0.05 | <0.05 |
| Dissolved Lead Low Level (mg/l) | 0.0001 | 0.0001 |
| Mineral Oil (mg/l) | <0.01 | <0.01 |
| 16 EPA PAHs ($\mu\text{g/l}$) | 0.03 | 0.01 |
| Benzene ($\mu\text{g/l}$) | <10 | <10 |
| Toluene ($\mu\text{g/l}$) | <10 | <10 |
| Ethylbenzene ($\mu\text{g/l}$) | <10 | <10 |
| Total Xylene ($\mu\text{g/l}$) | <10 | <10 |
| VOCs ($\mu\text{g/l}$) | <1 | <1 |
| SVOCs ($\mu\text{g/l}$) | <1 | <1 |
| Petrol Range Organics C5-C9 (mg/l) | <0.01 | <0.01 |
| Petrol Range Organics C10-C12 (mg/l) | <0.01 | <0.01 |
| Total PCB (mg/l) | <0.001 | <0.001 |

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