

JUN 21 1991



April 4, 1991

Mr. Mark Coleman
State of Vermont
Dept. of Environmental Conservation
Hazardous Materials Management Div.
103 South Main St.
Waterbury, VT 05676

RE: Worcester General Store

Dear Mark,

Enclosed are the laboratory results for the water samples which Griffin collected at the Worcester General Store on March 19th, 1991. The samples were collected from the bottom of the tank pit on the south side of the store. The pit had contained a 2,000 gallon underground gasoline storage tank which had been removed on March 15th.

The results indicate that the water in the bottom of the tank pit contained up to 5.83 parts per billion (ppb) benzene, 21.7 ppb ethylbenzene, 90.4 ppb toluene and 278 ppb xylenes. The water contained no MTBE.

The absence of MTBE in the groundwater indicates that the product which has contaminated the groundwater in the tank pit is over ten years old. This is consistent with the reported 20 plus years since the tank has contained product. MTBE was first used as a gasoline additive in the early 1980's.

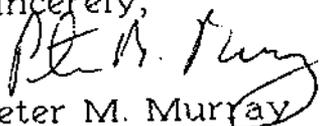
The laboratory results indicate that the concentrations of one of the compounds, benzene, exceeds the State of Vermont Enforcement Standards. The Enforcement Standard for benzene is 5 ppb. Concentrations of the remaining compounds were significantly lower than Vermont Enforcement Standards for those specific compounds.

As was stated in the tank pull report for this site, the contamination, which has been detected both on-site, with a photoionizer, and in the lab, is likely due to spillage from a product line which was broken during excavation of the tank. If the tank was leaking when in use, it could not have leaked product since the late 1960's. Any negative impact to potential receptors would have likely surfaced by now.

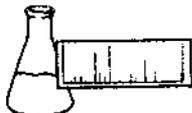
In summary, it is the opinion of Griffin International that, although concentrations of benzene in groundwater in the tank pit exceed Vermont Enforcement Standards by 0.83 ppb, the contamination is very localized and will not impact potential receptors.

Please call me with any questions which you may have regarding this site.

Sincerely,


Peter M. Murray
Site Inspector

cc: Jerry Nelson



ENDYNE, INC.

Laboratory Services

32 James Brown Drive
Williston, Vermont 05495
(802) 879-4333
FAX 879-7103

RELEASED TO: [illegible]

LABORATORY REPORT

EPA METHOD 602 -- PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Worcester General Store
REPORT DATE: April 3, 1991 ANALYSIS DATE: April 1, 1991
SAMPLER: Peter Murray STATION: 2k Tank Pit #1
DATE SAMPLED: March 19, 1991 REF.#: 18,504
DATE RECEIVED: March 19, 1991 TIME SAMPLED: 9:00 a.m.

| <u>Parameter</u> | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------|--------------------------------|-----------------------------|
| Benzene | 2. | 5.83 |
| Chlorobenzene | 1. | ND ¹ |
| 1,2-Dichlorobenzene | 2. | ND |
| 1,3-Dichlorobenzene | 2. | ND |
| 1,4-Dichlorobenzene | 2. | ND |
| Ethylbenzene | 1. | 15.6 |
| Toluene | 1. | 90.4 |
| Xylenes | 5. | 221. |
| MTBE | 1. | ND |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 4

NOTES:

1 None detected

Reviewed by Suzanne M. Desobell



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LABORATORY REPORT

EPA METHOD 602 -- PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Worcester General Store
REPORT DATE: April 3, 1991 ANALYSIS DATE: April 1, 1991
SAMPLER: Peter Murray STATION: 2k Tank Pit #2
DATE SAMPLED: March 19, 1991 REF.#: 18,505
DATE RECEIVED: March 19, 1991 TIME SAMPLED: 9:00 a.m.

| <u>Parameter</u> | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------|--------------------------------|-----------------------------|
| Benzene | 2. | 5.35 |
| Chlorobenzene | 1. | ND ¹ |
| 1,2-Dichlorobenzene | 2. | ND |
| 1,3-Dichlorobenzene | 2. | ND |
| 1,4-Dichlorobenzene | 2. | ND |
| Ethylbenzene | 1. | 21.7 |
| Toluene | 1. | 84.4 |
| Xylenes | 5. | 278. |
| MTBE | 1. | ND |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 6

NOTES:

1 None detected

Reviewed by Suzanne M. Shenacke



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LABORATORY REPORT

EPA METHOD 602 -- PURGEABLE AROMATICS

CLIENT: Griffin International
PROJECT NAME: Worcester General Store
REPORT DATE: April 3, 1991 ANALYSIS DATE: April 1, 1991
SAMPLER: Peter Murray STATION: Trip Blank
DATE SAMPLED: March 19, 1991 REF.#: 18,506
DATE RECEIVED: March 19, 1991

| <u>Parameter</u> | <u>Minimum Detection Limit</u> | <u>Concentration (ug/L)</u> |
|---------------------|--------------------------------|-----------------------------|
| Benzene | 2. | ND ¹ |
| Chlorobenzene | 1. | ND |
| 1,2-Dichlorobenzene | 2. | ND |
| 1,3-Dichlorobenzene | 2. | ND |
| 1,4-Dichlorobenzene | 2. | ND |
| Ethylbenzene | 1. | ND |
| Toluene | 1. | 2.39 |
| Xylenes | 5. | ND |
| MTBE | 1. | ND |

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:

1 None detected

Reviewed by Suzanne H. Frondake



State of Vermont

Department of Fish and Wildlife
Department of Forests, Parks and Recreation
Department of Environmental Conservation
State Geologist
Natural Resources Conservation Council

AGENCY OF NATURAL RESOURCES
Department of Environmental Conservation

Hazardous Materials Division
103 South Main Street
Waterbury, VT 05671-0404

June 14, 1991

Peter Murray
Griffin International
2 B Dorset Lane
Williston, VT 05495

RE: Request for Information - Worcester General Store

Dear Mr. Murray:

Upon review of your March 26, 1991 letter to Marc Coleman, the Department of Environmental Conservation (DEC), Sites Management Section (SMS) request any additional information available on the petroleum spill at Worcester General Store. In the letter, it is stated that analysis on groundwater is to be performed for BTEX and MTBE. In addition, it is noted that:

- 1) Soil contamination analysis using a PID showed a relatively small amount of contamination in tank pits.
- 2) Groundwater flow direction leads to the conclusion that any potential threat of contamination to groundwater drinking supplies is minimal.

Please send us the results of the groundwater analysis as soon as possible. If you have any questions, please feel free to call me at 244-8702.

Sincerely,

Chuck Schwer, Supervisor
Sites Management Section

CS/PS/lb1661

cc: Jerry Nelson