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Mr. David Sheldon CPG, Principal Engineer Leaking Tank Enforcement Program Division of Water Resources Department of Environmental Management 291 Promenade Street Providence, R.I. 17 January 1996

JAN 1 9 1995

Re: Property located at 100 Bosworth Street Providence, R.I. Leaking Tank Enforcement Case LS 2836

Dear Mr. Sheldon:

As a result of our 16 January 1996 informal meeting I am writing this letter as an addendum to my letter submitted to your office dated 20 December 1995. As noted in my previous correspondence, the 24" corrugated pipe located at the end of a trench filled with crushed stone and midpoint of a lined interceptor trench had been filled-in with stones and debris. This pipe was to be used as a collection point for any contamination that may have remained on the site.

As previously noted in the Closure Report completed by Triangle Environmental and dated October 23, 1992, the 15,000 gallon tank removal had to be performed in close quarters. There were buildings located to the northwest and southwest of the excavation and a concrete retaining wall to the northeast. After the 15,000 gallon tank had been removed, the oil (#6) saturated soil within the tank grave was excavated and placed on poly for proper disposal. Any remaining soil (within the tank grave and potentially under the building) that was <u>not saturated</u> but did inhibit a petroleum residual could not be excavated due to the potential undermining of the adjacent buildings and retaining wall. The above mentioned 24" corrugated pipe was installed to act a potential conduit for any residual contaminants, however, as noted above this pipe is no longer useful.

The information obtained in the closure report indicates that the oil saturated soil has been removed and that the residual contamination either under the building or within the tank grave could not be excavated due to the proximity of the adjacent buildings and retaining wall. In lieu of removing the building and the retaining wall to access the residual contaminated soil, MDR Engineering recommends that the site be monitored for residual contamination by utilizing the existing monitoring wells on site. The groundwater in the wells should be inspected with a bailer to determine the presence or absence of residual oil. This inspection should be scheduled annually and commence either in late spring or early summer or 1996. Your office will be notified in advance of our inspection date.

If you should have any questions regarding this correspondence feel free to contact me at 467-4040.

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Michael Del Rossi, Principal

cc: Piero Maggiacomo

MDR ENGINEERING 681 Park Avenue CRANSTON, RI 02910 TEL (401) 467-4040 FAX (401) 467-4980				LETTER OF TRANSMITTAL		
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Mr. David Sheldon CPG, Principal Engineer Leaking Tank Enforcement Program Division of Water Resources Department of Environmental Management 291 Promenade Street Providence, R.I.

Re: Property located at 100 Bosworth Street Providence, R.I. Leaking Tank Enforcement Case LS 2836 20 December 1995

Dear Mr. Sheldon:

As per our recent telephone conversation, you had requested an update on the status of the 24" corrugated pipe at the end of a trench filled with crushed stone and midpoint of a lined interceptor trench (see attached diagrams). Triangle Environmental had periodically inspected the 24" pipe for free product after it had been installed. The inspections revealed a dry pipe. MDR Engineering had recently (November 95) inspected the condition of the pipe only to find that it had been filled-in with stones and debris. If you should have any questions regarding this correspondence feel free to contact me at 467-4040.

Sincerely,

Michael Del Rossi, Principal

cc: Piero Maggiacomo



As determined in the field during the tank closure, the cause of free product at the project site was a leak in the 15,000 gallon #6 oil underground storage tank. Therefore, the remediation of this site is focusing only on the contamination originating from this #6 oil.

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As noted in previous correspondence, free product was observed in MW #2 & MW #5. This would be the obvious assumption if the direction of groundwater flow is in a southerly direction (after verification by Triangle Environmental).

The remediation method recommended by Triangle Environmental would be the installation of recovery trench - product recovery system. A trench would be installed between MW #2 & MW #5. An intercepting trench would be installed downgradient of the excavation. Within this trench would be a 24" corrugated pipe lined with an impermeable material.

The remediation procedure would begin by excavating a trench approximately 10' - 14' deep into the groundwater at an area north of MW's #2 & #5 and south of the existing water hydrant. The digging would continue southerly until the oil saturated soil was no longer encountered. During the excavation, all oil saturated soil would be removed and placed on poly for proper disposal. As the trench is extended southerly, the previously excavated area would be lined with crushed stone. At the end of the excavation an intercepting crushed stone trench lined with a impermeable material would be installed. This trench would contain a 24" corrugated/ perforated pipe and would extend from the groundwater surface to grade. The gravel lined trench would, over a period of time, collect and divert oil toward the 24" pipe w/intercepting trench. A site plan of the existing property is depicted in Figure 1. A diagram of the system is attached as Figure 2 of this report.

Initially this pipe would be monitored on a periodic (at least monthly) basis for free floating oil. The accumulated oil would be pumped into a vac truck for removal. Monitoring reports as well as pumped product would be submitted to your office for your review.

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