ENSR
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May 18, 2007

Mr. Doug Halley
Health Director
Acton Board of Health
472 Main Street
Acton, MA 01720

RE: 2006 Tank #1 Septic System Pump Out/Analytical Results
BOC Gases, 37 Lawsbrook Road
Hazardous Materials Control Permit
ENSR Project #00035-186

Dear Mr. Halley:

As a requirement of BOC Gases' Town of Acton Hazardous Materials Control Permit, septic tank sampling, content removal/disposal, and analytical results documentation is hereby provided. The sampling of the contents of the tank was performed on December 19, 2006. Pump out of this tank was performed by American Rooter and Septic Service (formerly Colonial Septic Service). Enclosed for your records are copies of the analytical results (Attachment A) and the septic pump service invoices (Attachment B).

Samples from the tank were obtained by ENSR and tested for total petroleum hydrocarbons (TPH) and volatile organic compounds (VOC) by Alpha Woods Hole Laboratory (formerly Woods Hole Group). No sheen, separate phases, or unusual odors were observed during the wastewater pump out. Analytical results have been checked and no limiting qualifications can be made to their quality. As outlined in the results (Table 1), TPH results for the tank contents were 37.3 ppm. These levels are to be expected based on the method of testing (U.S. EPA Method 1664) which is known to be affected by hydrocarbons of all types, including sewage.

Sampling indicates that VOCs (chloroform, carbon disulfide, acetone, toluene, 1,4-dichlorobenzene, chlorobenzene and p-isopropytoluene) were present in the sanitary wastewater effluent from the tank. The majority of these compounds have been previously detected in tank samples at varying concentrations. Calculations performed based on the concentrations of chemicals from the tank content, volume of the contents, and density of the chemicals detected, determined that the maximum volume of pure compound that could have entered the tank to exhibit the concentrations found were no more than one to two milliliters, if that. The levels observed in the septic tank could be the residual effects of a previously reported isolated incident. A more likely cause of the

detectable VOCs is the use of normal, over-the-counter industrial cleaning fluids that are used by housekeeping personnel at the facility or degradation products from such fluids.

If you have any questions, please feel free to contact me at (978) 589-3000, extension 3095.

Very truly yours

Art Taddeo

Art Taddeo
Program Manager

Attachments

cc: R. Leva, BOC (Acton, MA)
M. Resh, BOC (New Jersey)

Table 1
Septic Tank #1 Analytical Results
BOC Gases
Acton, MA
December 19, 2006

Contaminant	Mar-95	Mar-96	Sep-96	Mar-97	Sep-97	May-00	Dec-06
TPH	-	3.2	3.4	29	40	14	37.3
Methylene Chloride		2JB	-	-	9	-	
Chloroform	-	2J	-	-	-	-	0.89
Chloroethane	-		-	-	-	-	-
1,1,1-TCA	-	-	-	-	-	-	-
Carbon Disulfide	-	-	4J	-	4J	-	79
Acetone	200	130B	12	130	110	64	8.6
Xylenes	8.2	-	-	-	-	-	-
Toluene	85	100	-	140	100	68	2.0
1,4 Dichlorobenzene	17	40	18	-	-	-	5.4
2-Butanone (MEK)	-	4J	-	-	26	-	-
Chlorobenzene	-	4J	4J	8	54	-	8.3
p-Isopropyltoluene	-	-	-	-	-	-	11

J - Estimated
JB - Estimated and occurs in the blank
- Analyzed but less than the detection limit for the analyical method used for this constituent.
All results in µg/l except for TPH which are in mg/l.

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AMERICAN ROOTER INC.

P.O. BOX 171
LUNENBURG, MA 01462-0171

P.O. BOX 476
LITTLETON, MA 01460-0476

WINTAC #: [illegible]

Date: 12/18/06

Dispatch #: [illegible]

CUSTOMER NAME: CNSR	CUSTOMER PHONE: [illegible] 535-7371	TECHNICIAN: Jay
ADDRESS: 27 [illegible]	APT #	PO #
CITY: [illegible] STATE: MA ZIP: [illegible]	JOB ADDRESS (IF DIFFERENT): 37 [illegible]	

DRAINS: NO GUARANTEE FOR MAIN LINE THAT A FULL-SIZED BLADE CAN'T BE USED

	DISTANCE SNAKED	BLADE SIZE	BLOCKAGE	[illegible]	[illegible]
MAIN LINE					
KITCHEN SINK					
BATHROOM SINK					
TUB					
TOILET					
FLOOR DRAIN					
WASH LINE					
OTHER					

RECEIVED
DEC 21 2006
ENSR CORP

PUMPING:

	SIZE OF TANK	GALLONS PUMPED	EXCAVATION DEPTH	[illegible]	[illegible]
SEPTIC TANK	1500	1500	—	—	$235.00
CESSPOOL					
GREASE TRAP					
OTHER					

☐ INLET BAFFLE MISSING ☐ OUTLET BAFFLE MISSING ☐ FAILED SYSTEM

JETTING	RATE	[illegible]	[illegible]
CAMERA INSPECTION	RATE	TIME	[illegible]
TITLE V		TITLE V [illegible]	
PARTS	QUANTITY	PRICE	TOTAL

NOTES:

REF. [illegible] 5781

PARTS	$
LABOR	$ 235.00
FUEL CHG.	$ 10.00
OTHER	$ [illegible] 15.00
OTHER	$
TOTAL DUE	$ 260.00

I hereby authorize you to perform the above described services and I agree to pay the amounts indicated to the right. I hereby certify that I am duly authorized to order and approve the work requested. Interest @ 1.5% per month, 18% per annum on past due balances.

SIGNATURE _______________ DATE _______________

This is to acknowledge completion of the above described work which has been done to my complete satisfaction and that I have received a copy of this invoice.

CUSTOMER SIGNATURE _______________ DATE _______________

☐ MasterCard ☐ Visa Card No. _______________ Exp. Date _______________ ☐ CASH ☐ CHECK # _______ ☑ NET 15 DAYS

WHITE OFFICE YELLOW FILE PINK CUSTOMER

RETURN CHECK CHARGE $25.00