



286 Houses Corner Rd.
Sparta, NJ 07871

350 Third Ave., #277
New York, NY 10010

75 Cumberland St.
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1333A North Avenue #324
New Rochelle, NY 10804

100 Springdale Rd., A3 #313
Cherry Hill, NJ 08003

MESA 2-D Tank Test (Residential)

v6

Job No: 10030303 Customer: [Redacted]
 Insp. Date: 3/23/2010 Location/Site Address: [Redacted]
 Technician: Don Pyatt *Don Pyatt* Phone: [Redacted]
 Lic./Cert.#: 453827 Site State (required): New Jersey

Report Date: 3/24/2010 Spill # (if appl.):
 Client info for report: Client Name: [Redacted]
 Client Address: [Redacted]

Paid? Amt Pd: 285 Pd By Check Chk#: 9480 Tech Hrs: Select...

General Tank Information		Underground Storage Tank		
Tank# 1	Location <u>at the front of the structure</u>	Retest? <u>No</u>	Isolated? <u>No</u>	
Product: <u>heating oil</u>	Capacity: <u>550 gal.</u>	Diameter: <u>48</u> inches		
Start Total Liquid: <u>40.500</u>				
Start Water (in.): <u>0.000</u>				
Start Fuel (in.): <u>40.500</u>				
Prod. specific gravity: <u>0.8600</u>				
Tank bottom to grade: <u>91.000</u>				
Minimum depth of sample required to test ground water (includes 2 in. add'l) <u>56.170</u>				

Pressure Sensor Calculation

Depth of Groundwater from Grade: _____ Depth of Groundwater Determined: _____
 by: _____
 where: _____
 Inches of Water Outside Tank: _____ 60.000 Normal Pressure
 0.000 Pressure Adjustment
 Test Pressure: 0.000 Inches of Water Column

Corrosivity

C-MOST Readings Taken? Yes		If NO, Reason:	
Half Cell #1	244	Half Cell #2	Half Cell #3
		Half Cell #4	

Sample Collection

Sample Area Cover:		Earth / concrete	
Depth to bottom of collection area (in:)		97	Type of Soil: not performed
Was depth: <u>Measured</u>		If ESTIMATED, was tank cut open at the top? <u>Select...</u>	
Depth reached? <u>No</u>		If NOT reached, reason: not performed	
Number of Samples Taken: 0		Soil Field Screen:	Not Performed
		Lab-Test Results:	Not Performed
Hole	Depth (in.)	Odor	PID #
		Select...	
			Time Taken
			Sent to Lab?
			Select...

Do not perform MESA test unless Sample(s) Pass the Soil Field Screen, (or lab-results later return with Pass)

HOLD Report? <u>Yes</u>	<input type="checkbox"/> Water?	<input checked="" type="checkbox"/> Vent?	<input type="checkbox"/> Sludge?
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Mesa 2-D Test Results

Sonde Serial # SB0023		Calibration Test: <u>Select...</u>	
Vacuum Pressure Start: 40		Vacuum Pressure Finish: 30	
Vacuum Start Time: 1:30 PM	Vacuum Finish Time: 1:35 PM	Total Vacuum Time: 5	
MESA 2-D Result: <u>FAIL by GAUGE</u>			
End Total Liquid: 40.500	End Water: 0.000	End Fuel: 40.500	

New York State PBS:

Comments:

No samples taken due to not knowing where electric and all other utilities are. Pulled vacuum to 40 inches and heard bubbling and an air leak. I put plumber's putty around the fitting of the already crimped and capped fuel line just in case it wasn't sealed. Still got bubbling and air leak. FAIL!



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Cherry Hill, NJ 08003

Underground Storage Tank Inspection Report Summary

Report Date: March 24, 2010

Client:		
ATS Reference #:	10030303	
Inspection Date:	March 23, 2010	
Property Location:		
	Pennington, NJ	
Tank Size:	08534	
	550 gallons	
Corrosivity Test	Tank Tightness Test	Soil Testing
Unacceptable	FAIL <i>Hold: Vent</i>	Field Screen: Not Performed
		Lab Analysis: Not Performed



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1333A North Avenue #324
New Rochelle, NY 10804
100 Spingdale Rd., A3 #313
Cherry Hill, NJ 08003

March 24, 2010

Re: [REDACTED]

Dear [REDACTED]

Pursuant to your request, Advanced Tank Services Co. on "March" 23, 2010, evaluated a 550 gallon underground heating oil storage tank at [REDACTED] NJ 08534. The specific tests performed at this site and the results of each evaluation are listed in the following inspection report detail.

S.T.E.P.S. Corrosion Test

ATS measured the soil to tank potentials to assess the corrosive state of the storage tank at this location. The soil to tank potential measurements were conducted in accordance with ASTM and EPA testing standards.

High Corrosion Level Detected

Testing detected unacceptable corrosion levels between the tank and soil, which indicates a high probability that a leak may occur or exist in the tank system. In this case, the responsible party should strongly consider decommissioning this tank even though the tank may have passed a tank tightness test. A high corrosion level does not necessarily mean that holes are present in the tank system.

Tank Tightness Testing

Advanced Tank Services Co. performed the Mesa 2-D digital nonvolumetric tightness test on the storage tank. The Mesa 2-D is capable of detecting leaks at a rate that meets or exceeds United States Environmental Protection Agency and State regulations for leak detection of storage tanks.

These requirements are specified in the U.S. EPA protocol s 40 CFR Part 280, Subpart D entitled "Standard Test Procedure for Evaluating Leak Detection Methods: Nonvolumetric Tank Tightness Tank Testing Methods", EPA/530/UST-005 and Section 6.3.1 "Application of Protocol to Acoustical Methods". According to these regulations, leak detection systems must be capable of detecting leaks of 0.1 gallons per hour with a probability of detection of 0.95 and probability of false alarm of 0.05.

The Mesa 2-D test system examines the integrity of the tank and associated piping by digitally monitoring and recording the acoustical profile inside the tank. A computer analyses this data and determines whether detectible leaks exist in the wetted (product filled) and ullage (empty portion) of the tank and tank system. The tank contained 40.5 inch(es) of product and 0 inch(es) of water.

Analysis and Recommendations

The evaluation showed that a leak exists in the tank that exceeds EPA and State standards for leak detection of storage tanks.

In conclusion, the tank tested at 281 Pennington Lawrenceville Road, Pennington, NJ 08534 has failed because a leak was detected in the tank or associated piping that exceeds 0.10 gallons per hour. We recommend that the responsible party isolate the tank from the piping by uncovering the top of the tank and removing the vent and product lines from the system. This will enable us to separately test the tank as a sphere.

Once the tank has been isolated from the piping, please contact us about a retest which will cost \$225.00. When we retest the tank, the contractor should be present so that any additional repairs can be made while we are onsite.

If the responsible party decides against isolating the tank, they should contact a state certified tank remediation contractor. Depending on the contractor's findings at this site, it may be necessary for the responsible parties to comply with NJDEP Site Remediation Program. This program requires the responsible party notify the Environmental Action Hotline at 1 (877) 927-6337 about the potential release of product into the soil.

As part of our evaluation, the technician determined that the vent pipe is less than twenty-four (24) inches above ground. According to National Fire Protection Association (NFPA) paragraph 8.6.3, the vent pipe must be placed above the ground to avoid being obstructed with snow and ice. We estimate this level to be at least twenty-four (24) inches above ground. For these reasons, Advanced Tank Services is unable to certify the tank in its present condition.

In addition, if you are not isolating the tank, you must provide the tank contractor with the attached Notice to Repair/Closure Contractor.

Advanced Tank Services Co. does not remediate soil or repair storage tanks. Please discuss soil remediation, tank repair and tank closure options with a State certified remediation contractor.

If you have any questions, please do not hesitate to contact our office.

Sincerely,



Gary M. Harris

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NOTICE TO TANK REPAIR/CLOSURE **CONTRACTOR**

The repair contractor must follow these operating procedures:

1. Uncover and expose the top of the underground storage tank and associated piping.
2. Examine the fill pipe, air vent pipe and piping connections at the top of the tank for leaks.
3. Disconnect the product lines (supply & return) and test these lines under pressure for leaks.
4. If a leak is detected in #2 and #3 above, please make the necessary repairs and investigate the possible discharge of product into the soil. Leave the underground storage tank exposed and notify ATS so that we can schedule a retest of the tank.
5. If no leak in the piping (#2 and #3 above) is detected, then proceed with proper closure of the underground storage tank.