

7 Day Report

~~**Allsup's' Store #294**~~

Las Vegas, New Mexico

Prepared for
Allsup's' Convenience Stores

prepared by
Billings & Associates, Inc.
August 11, 1993



Table of Contents

Section	Description	Page
1.0	Introduction	1
2.0	Water Supply	1
3.0	Well Information	2
4.0	Water Supply Impacts	2
5.0	Vapors	2
6.0	Vapor Abatement	2
7.0	Other Hazards	3
8.0	Ownership and Contaminant	3
9.0	Investigation History To Date	3

Appendices

**Allsups' # 294, Las Vegas
7 Day Report (USTR § 1204)**

List of Appendices

Appendix	Description
A	Tank Tightness Test
B	Photographs

1.0

Introduction

This report is presented to provide information relative to § 1204B of the Underground Storage Tank Regulations (USTRs) with respect to the Allsup's Convenience Store located at 615 Grand, Las Vegas, New Mexico. Billings and Associates, Inc. (BAI) first became involved with the site in May, 1993, when correspondence was directed to BAI. At that time, the ATEX Trustee and the bankruptcy courts were involved with the site. First, this report will provide specific information in the numeric sequence as defined in § 1204B. Second, a summary description of actions and acquired information will be given per § 1203. Appendix A contains a copy of the tank tightness test report from July, 1992.

2.0

Water Supply [§ 1204B (1)]

The portion of the regulations seek disclosure of "the information about private and public water supplies which the owner and operator obtained pursuant to §1203A;". The referred location of the regulations requires the identification of the location of any private water supply within a 1000 foot radius or public water supply within a 1 mile radius of the UST system. The facility is on City water. Exact locations of any registered water wells will be submitted with future correspondence relating to an MSA to be conducted at this site. There are no surface water courses within 500 feet of the store.

3.0

Well Information [§ 1204B (2)]

§1204B (2) requests "well logs and construction and location information for any on-site wells;". No wells exist on site and thus no information exists.

4.0

Water Supply Impacts [§1204 B (3)]

This portion of the regulations requests "information about any known or suspected water supply impacts and any actions taken to abate such impacts;". No impact of surface or underground water supplies by this release is yet known. The present fueling system remains operational at this site.

5.0

Vapors [§1204 B (4)]

This portion requests "information, including test results, about vapors detected in the vicinity of the site;". No soil sampling information was noted within the file provided to BAI. During the tank tightness test, conducted during July, 1992, all three tanks passed, and no soil vapor locations were indicated above state action levels.

6.0

Vapor Abatement [§1204B (5)]

§1204B (5) requests "if potentially explosive or harmful vapors were detected, information about actions taken to abate the vapors and any plans for further action;".

No such situation has been found to exist at this site at the present time.

7.0

Other Hazards [§ 1204B (6)]

§ 1204B (6) requests "information about other fire and safety hazards and actions taken to abate such hazards;". The fuel dispensing system remains in operation, and there has not been a catastrophic loss of fuel at this store, so the hazard level is low, in terms of fire and/or explosion. No severely contaminated soils were evident while at the site. The entire area is covered with concrete, and heavy traffic is present at the site. Utility lines enter the site off Grand Avenue.

8.0

Ownership and Contaminant [§1204B (7)]

§1204B (7) requires "information about the current and past ownership of the UST system, the substance stored in the system and the property on which the UST system is located;". The UST system remains in service. The current system is the responsibility of Allsup's Convenience Stores, Inc., 2112 Thorton, P.O. Box 1907, Clovis, New Mexico 88101. At a previous date, the system was owned by ATEX Gas, Inc. Suspected contaminants would be unleaded and leaded gasoline products.

9.0

Investigation History To Date

Tank tightness testing was completed for a second time in July, 1992. The tanks passed this test. The store is on city water. Photographs of the site are provided in Appendix B, taken from a site visit on August 9, 1993.

Appendices

**Allsup # 294, Las Vegas
7 Day Report (USTR § 12-0)**

**Appendix A
Tank Tightness Test**



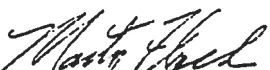
PREPARED FOR:

Tank Management Services
P.O. Box 26676
Albuquerque, New Mexico

New Mexico
Prior Contamination
Not currently leaking
Note attached to this
group of reports from Chris

Tracer Tight® Test
of
3 Underground Storage Tanks
at the
~~615 Grand~~ #294
615 Grand
Las Vegas, NM
July 15, 1992

SUBMITTED BY:


TRACER RESEARCH CORPORATION

JOB # 160080



INTRODUCTION

Tank Management Services and Tracer Research Corporation performed Tracer Tight® leak testing of 3 underground storage tanks at the Allsup's #294 site in Las Vegas, NM. The tanks were inoculated with tracer on June 22, 1992, to a concentration of approximately 10 ppm. Samples were collected on July 7, 1992. The following table shows the tank size, type of tracer in each tank, fuel through put factor in the first 72 hours after inoculation and total amount of tracer introduced into each tank:

<u>TANK #</u>	<u>SIZE(GAL)</u>	<u>TRACER</u>	<u>FACTOR</u>	<u>AMOUNT(G)</u>
Tank 1	10,143	FB	1	200
Tank 2	6,011	DA	1	250
Tank 3	10,143	FB	1	200

The following table shows the type of product in the tank, the product level and the water level in each tank measured in inches at the time of inoculation and sampling.

<u>TANK #</u>	<u>PRODUCT</u>	<u>AT INOCULATION</u>		<u>AT SAMPLING</u>	
		<u>H₂O</u>	<u>PRODUCT</u>	<u>H₂O</u>	<u>PRODUCT</u>
Tank 1	Regular	0.00	32.50	0.00	66.00
Tank 2	Unleaded	0.00	62.50	0.00	29.50
Tank 3	Unleaded	0.00	51.50	1.00	16.50

The depth to water in the tank pit was determined to be >9 feet below grade. The groundwater conditions were stable.



CONCEPT OF OPERATION AND IMPLEMENTATION

The tracer leak detection method relies upon the addition of a highly volatile liquid chemical to the product in the tank. If a leak occurs in the underground storage system, fuel is released into the surrounding soil. The tracer escapes from the fuel by vaporization and disperses into the soil by molecular diffusion. Various means are used to sample the soil vapors in the immediate vicinity of the underground storage tanks and associated piping. Each probe has an effective detection radius of approximately 10 to 12 feet. This means that a given probe should detect a leak anywhere within the area described by the 10 foot radius around the probe. The tracer must be placed in the tank at least two weeks prior to the probe sampling for this method to be effective. This process of leak detection by placing a liquid or gas tracer in a liquid product followed by detection of the tracer underground in the vapor phase is protected under *TRACER* patents.

The throughput factor is used to determine the amount of tracer chemical used to inoculate a given tank. The throughput factor is a multiplier and is based on the number of tank refills expected within the first three days after inoculation. The multiplied amount of tracer is used to maintain the concentration of tracer in the tank to at least 10 ppm over the first 3 days after inoculation based on the estimated amount of fuel to be received during this period.

LEAK DETECTION CRITERIA

The classification of leakage is based on the presence or absence of tracer.

PASS

Criteria:

NO tracer detected

FAIL

Criteria:

tracer detected

Total volatile hydrocarbon (TVHC) concentrations are measured to give additional information about site conditions. The TVHC data provide information about the severity of the leakage, and the degree of any possible environmental damage that may have occurred. The TVHC data is not used as a criterion factor to determine the status of a particular tank(s) or piping and is provided as supplemental information only.

**CERTIFICATION**

Job Number : 160080

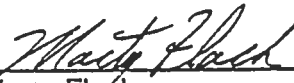
Date : 07/15/92

Location: Allsup's #294
615 Grand
Las Vegas, NM

<u>TANK #</u>	<u>PRODUCT</u>	<u>SIZE(gal)</u>	<u>TRACER</u>	<u>LEAK STATUS</u>
Tank 1	Regular	10,143	FB	Pass
Tank 2	Unleaded	6,011	DA	Pass
Tank 3	Unleaded	10,143	FB	Pass

Tracer Research Corporation certifies that the tank and pipe systems listed in the above table have been tested by means of Tracer Tight®, which meets the criteria set forth in NFPA 329 for a precision leak test. According to EPA standard test procedures for evaluating leak detection methods, the Tracer Tight® method is capable of detecting leaks of 0.05 gallons per hour with a Probability of Detection (P_D) of 0.97 and Probability of False Alarm (P_{FA}) of 0.029.

Submitted by:


Marty Flick
Tracer Research Corporation

Testers State License Number: NA

The following criteria are used for the classification of leakage based on the presence or absence of tracer.

PASS

Criteria:

No tracer detected

FAIL

Criteria:

tracer detected

TMS/Allsup's No. 294
615 Grand, Las Vegas, NM

160080



7/15/92	CONDENSED DATA	Page 1
Location	Compound	Concentration
001-5	FB	0.0000
001-5	BCF	0.0000
001-5	DA	0.0000
001-5	TVHC	35.5610
002-5	FB	0.0000
002-5	BCF	0.0000
002-5	DA	0.0000
002-5	TVHC	84.7740
003-5	FB	0.0000
003-5	BCF	0.0000
003-5	DA	0.0000
003-5	TVHC	45.4450
004-5	FB	0.0000
004-5	BCF	0.0000
004-5	DA	0.0000
004-5	TVHC	40.0570
005-5	FB	0.0000
005-5	BCF	0.0000
005-5	DA	0.0000
005-5	TVHC	56.8110
006-5	FB	0.0000
006-5	BCF	0.0000
006-5	DA	0.0000
006-5	TVHC	56.5910
007-1.5	FB	0.0000
007-1.5	BCF	0.0000
007-1.5	DA	0.0000
007-1.5	TVHC	.1970

TVHC in mg/L, Tracers in mg/L

0.0000 = Not detected Detection Limits: Tracer (0.0001)

-9999999999 = No sample

TVHC (0.05)

TMS/Altsup's No. 294
615 Grand, Las Vegas, NM

Tracer Research Corporation

160080

7/15/92

CONDENSED DATA

Page 2

Location	Compound	Concentration
BLANK01	FB	0.0000
BLANK01	BCF	0.0000
BLANK01	DA	0.0000
BLANK01	TVHC	.2320

TVHC in mg/L, Tracers in mg/L
0.0000 = Not detected Detection Limits: Tracer (0.0001)
-9999999999 = No sample TVHC (0.05)

EXPLANATION

- 1 Sampling Probe Location
- Approximate Pipeline Location

Medium Concentration

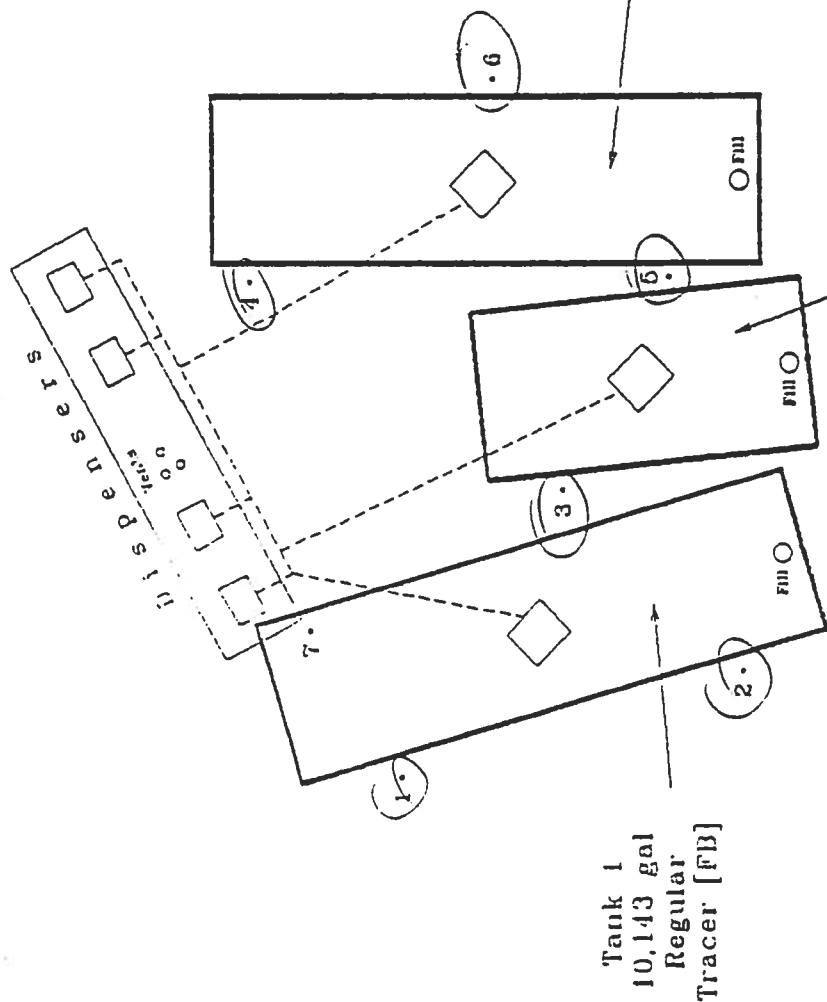
Overfills & leaking subpumps

Steel tank & line

Installed 1982

EPA - probably replace - possible catch

Automated System



Tank 2
6,011 gal
Unleaded
Tracer [DA]

Tank 3
10,143 gal
Unleaded
Tracer [FB]

Tank 1
10,143 gal
Regular
Tracer [FB]



Black

160080

Sidewalk

BUILDING

ALLSUP'S # 294

616 GRAND

LAS VEGAS, NEW MEXICO

SAMPLING LOCATIONS

**Allsup # 294, Las Vegas
7 Day Report (USTR § 12-0)**

**Appendix B
Photographs**



Photograph #1
Allsup's #294, Las Vegas NM



Photograph #2
Allsup's #294, Las Vegas NM

