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Doc #16548

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7LTA06  
YWB

DEPARTMENT OF NATURAL RESOURCES

THOMAS J. VILSACK, GOVERNOR  
SALLY J. PEDERSON, LT. GOVERNOR

LYLE W. ASELL, INTERIM DIRECTOR

February 20, 2001

Gordon Ruckman  
PO Box 37  
Persia, IA 51563

10/28/03  
COPY  
from LUST file

CERTIFIED MAIL

7099322000410266979

Return Receipt Requested

SUBJECT: Site Reclassification through Site Monitoring Report - Persia Oil Company, 102 North Railroad Street, Persia, Iowa  
Registration No. 8811664

LUST No. 7LTA06

Dear Mr. Ruckman:

This letter is in response to the receipt of the Site Monitoring Report (SMR) for the referenced site. Thank you for the submittal. We have conducted a completeness review of the report as described in Subrule 567-135.12(10) of the Iowa Administrative Code. A SMR is considered to be complete if it contains all the information and data required by the department's administrative rules and guidance. We are accepting the report for the purpose of completeness and are relying on Todd Warth, Iowa Certified Groundwater Professional No. 1334, for accuracy and compliance with the department's rules and guidance.

We are assigning the site a Low Risk classification. Annual monitoring is required during the third calendar quarter as shown on the enclosed Monitoring Certificate to measure changes in contaminant levels and migration of the contaminants. DNR rules require you to retain a certified groundwater professional to conduct all site monitoring activities. A Site Monitoring Report (SMR) must be submitted to DNR within 30 days after each sampling event. The first SMR must be submitted by October 30, 2001.

The department has identified some technical problems in the SMR. These problems require correction / clarification in association with the next SMR submittal. Be aware the comments and problems noted below may affect pathways, receptors, risk classification, site-specific target levels (SSTLs) and the proposed monitoring plan:

1. The Soil Gas Monitoring Plan was not included in the SMR. The Soil Vapor to Enclosed Space Pathway is low risk for potential receptors and the monitoring plan is required.
2. The six technical problems listed in the departments August 21, 2000 letter assigning the site a high risk classification were not addressed in the SMR submittal.

To reclassify the site as "no action required", your certified groundwater professional must submit justification in the form of an SMR. In general, either:

Tier 2 target levels (SSTLs) must be met, as well as exit monitoring criteria [567—135.12(6)];

OR

Pathways must be eliminated. For some other options, please refer to the Corrective Action Summary from Tier 2 SCR, page 5.

When the department receives an SMR proposing a "no action required" site classification, we may conduct a thorough review of the SMR and the associated Tier 1 Report and Tier 2 SCR for completeness, accuracy, and compliance using the department's rules and guidance. We will determine whether the data and information contained in the reports support the site classification. Site data and report information

February 20, 2001

Page 2 of 2

determined to be incomplete, inaccurate or not in compliance with the department's rules and guidance must be revised before the "no action required" site classification will be considered.

The department must be informed of any changes in ownership or responsible party. You are also required to inform us immediately of any changes at the site (i.e., appearance of free product, water well installation, construction, development, etc.) which could affect site risk classification.

All monitoring wells used to assess this release should be maintained even if they are not included in the current monitoring plan. We strongly recommend wells be fitted with lockable protective devices and clearly labeled. Only after the site has been classified "no action required" must wells be plugged according to Chapter 567—39 of the Iowa Administrative Code and DNR Form 542-1226 be submitted.

In all correspondence regarding this project, please include the LUST number, which is indicated in the Subject heading of this letter. Please contact me at 1-515-281-8957 if you have questions or if we may be of further assistance.

Sincerely,

*Tammy Vander Bloemen*

Tammy Vander Bloemen  
Environmental Specialist  
Underground Storage Tank Section

Enclosure

C: Field Office 4  
GAB Robins  
Todd Warth, Terracon, 600 SW 7<sup>th</sup> Street, Suite M, Des Moines, IA 50309

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits. *TUB INC*

1. Article Addressed to:

GORDON RUCKMAN  
~~PO BOX 37~~  
PERSIA IA 51563

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) B. Date of Delivery

*Lois Ruckman* *2/23/01*

C. Signature

*x Lois Ruckman* ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☒ Yes ☐ No  
If YES, enter delivery address below:

*3657-296<sup>th</sup> St.*

3. Service Type

☒ Certified Mail ☐ Express Mail  
☐ Registered ☐ Return Receipt for Merchandise  
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Copy from service label)

*70993220000410266979*

**IOWA DEPARTMENT OF NATURAL RESOURCES**



**MONITORING CERTIFICATE  
FOR  
LOW RISK LEAKING UNDERGROUND STORAGE TANK SITE**

This monitoring certificate is issued on February 20, 2001 to Persia Oil Company for the petroleum contaminated underground storage tank site located at Persia Oil Company, 102 North Railroad Street, Persia, Iowa.

UST Registration No. 8811664

LUST No. 7LTA06

The above site was determined to be low risk in accordance with 567--135.12 of the Iowa Administrative Code. Monitoring of the site is required in accordance with the monitoring plan approved by the department, and any subsequent amendments. Attached is a list of monitoring requirements. A certified groundwater professional must evaluate the analytical results and site conditions to determine if a change in monitoring or classification is warranted. In general, a "no action required" site classification requires that target levels from Tier 2 be met, as well as exit monitoring criteria described in 567 - 135.12(6). A proposal to revise the monitoring requirements or to reclassify a site must be prepared by a certified groundwater professional and submitted on the department's Site Monitoring Report form.

Failure to perform any requirements of the approved monitoring plan can cause loss of the monitoring certificate and enforcement action against the responsible party for the above property. This certificate and all amendments remain the property of the Department of Natural Resources and must be returned upon written request.

This certificate shall not prevent the Iowa Department of Natural Resources from pursuing future action on this site if contamination movement is detected, site conditions change altering risk classification, or other contamination is identified.

This certificate does not constitute a warranty or representation of any kind to any person as to the condition, marketability or value of the above described property.

For the Director:

**JAMES R. HUMESTON  
SUPERVISOR, UNDERGROUND STORAGE TANK SECTION  
LAND QUALITY & WASTE MANAGEMENT ASSISTANCE DIVISION**

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SUPERVISOR, UNDERGROUND STORAGE TANK SECTION  
LAND QUALITY & WASTE MANAGEMENT ASSISTANCE DIVISION**

# IOWA DEPARTMENT OF NATURAL RESOURCES



## General Monitoring Requirements

February 20, 2001

UST Registration No. 8811664

LUST No. 7LTA06

Refer to the approved Tier 2 Site Cleanup Report for actual monitoring locations. This is only a general reference of type, number, and analytical parameters for the sampling locations.

### Sampling schedule:

Sample in the third calendar quarter every year until a "no action required" classification is approved.

Samples must be taken at a minimum of once per year.

### Analytical parameters:

Soil - Not applicable. May be required for change in classification or closure.

Groundwater - Benzene, toluene, ethylbenzene and xylene

Soil Gas - Benzene and toluene

### Sampling points (locations in monitoring plan):

Soil - Not applicable. May be required for change in classification or closure.

Groundwater - Monitoring Wells BH3, MW-15, MW-8, MW-2\*, MW-10\*, MW-5\* and MW-13

\*Sample once prior to No Further Action Request

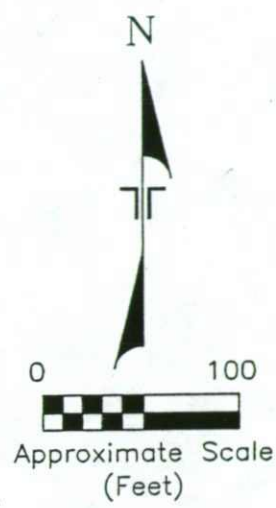
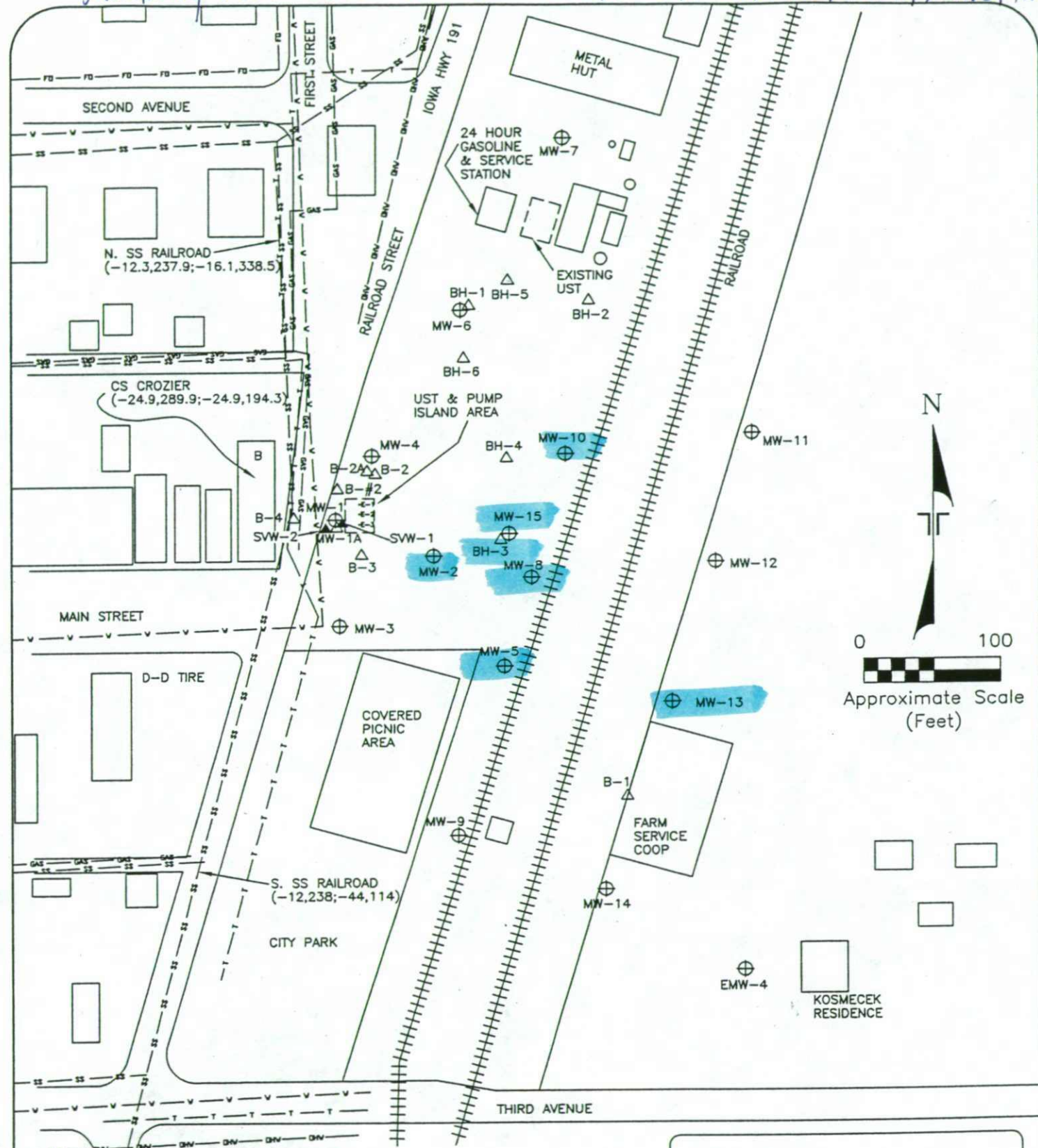
Soil Gas - Soil gas well to be installed within five feet of soil source MW-1A.

### Report Schedule:

Reports are due 30 days after the end of the calendar quarter in which sampling was conducted.

| Tier 2 Groundwater Analytical Data (ug/L), V-2.51, 7LTA06 |                 |                 |          |          |          |         |        |         |         |         |        |       |            |                |
|-----------------------------------------------------------|-----------------|-----------------|----------|----------|----------|---------|--------|---------|---------|---------|--------|-------|------------|----------------|
| Boring/<br>Well #                                         | Date<br>Sampled | Elevations(ASL) |          |          |          | Group 1 |        |         |         | Group 2 |        | Naph. | FP<br>Type | FP<br>Default? |
|                                                           |                 | Ground          | TOC      | TOS      | SWL      | B       | T      | E       | X       | TEH-D   | TEH-WO |       |            |                |
| BH#2                                                      | 05/26/1988      | N               | N        | N        | N        | 190.    | 280.   | 380.    | 850.    | N       | N      | N     | N          | N              |
| BH1                                                       | 01/04/1989      | N               | N        | N        | N        | <0.2    | <0.5   | <0.4    | <0.8    | N       | N      | N     | N          | N              |
| BH2                                                       | 01/04/1989      | N               | N        | N        | N        | 13.     | 4.4    | 1.6     | 3.4     | N       | N      | N     | N          | N              |
| BH3                                                       | 01/04/1989      | N               | N        | N        | N        | 7,500.  | 410.   | 1,400.  | 3,700.  | N       | N      | N     | N          | N              |
| BH3                                                       | 01/04/1989      | N               | N        | N        | N        | 10,000. | 310.   | 1,500.  | 3,700.  | N       | N      | N     | N          | N              |
| MW-15                                                     | 01/12/2000      | 1,173.21        | 1,173.03 | 1,163.21 | 1,155.21 | 10,000. | 6,650. | 22,200. | 38,900. | N       | N      | N     | N          | N              |
| BH4                                                       | 01/06/1989      | N               | N        | N        | N        | 11.     | 4.3    | 30.     | 89.     | N       | N      | N     | N          | N              |
| BH5                                                       | 07/07/1989      | N               | N        | N        | N        | <1.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |
| BH6                                                       | 07/07/1989      | N               | N        | N        | N        | <1.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |
| EMW-4                                                     | 08/17/1994      | 1,160.70        | N        | 1,153.70 | 1,148.19 | <2.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |
| MW-1                                                      | 02/18/1994      | 1,177.40        | N        | 1,167.40 | 1,161.79 | <4.     | 870.   | 500.    | 2,000.  | N       | N      | N     | N          | N              |
| MW-2                                                      | 02/18/1994      | 1,176.50        | N        | 1,166.50 | 1,159.74 | 3,600.  | 770.   | 3,600.  | 4,000.  | N       | N      | N     | N          | N              |
| MW-3                                                      | 08/16/1994      | 1,175.30        | N        | 1,170.30 | 1,162.63 | <2.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |
| MW-4                                                      | 08/16/1994      | 1,176.00        | N        | 1,171.00 | 1,161.22 | 45.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |
| MW-5                                                      | 08/16/1994      | 1,169.40        | N        | 1,164.40 | 1,157.23 | 1,300.  | 100.   | 1,700.  | 2,000.  | N       | N      | N     | N          | N              |
| MW-6                                                      | 02/18/1994      | 1,175.00        | N        | 1,165.00 | 1,159.44 | <2.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |
| MW-7                                                      | 02/18/1994      | 1,174.50        | N        | 1,164.50 | 1,157.63 | <2.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |
| MW-8                                                      | 08/17/1994      | 1,174.70        | N        | 1,164.70 | 1,159.19 | 3,700.  | 200.   | 1,600.  | 2,000.  | N       | N      | N     | N          | N              |
| MW-9                                                      | 08/16/1994      | 1,167.60        | N        | 1,162.60 | 1,155.37 | <2.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |
| MW-10                                                     | 08/17/1994      | 1,175.20        | N        | 1,165.20 | 1,157.68 | 1,500.  | 35.    | 1,100.  | 340.    | N       | N      | N     | N          | N              |
| MW-11                                                     | 08/18/1994      | 1,166.50        | N        | 1,161.50 | 1,156.13 | <2.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |
| MW-12                                                     | 08/17/1994      | 1,166.20        | N        | 1,161.20 | 1,155.88 | <2.     | <2.    | <2.     | 2.9     | N       | N      | N     | N          | N              |
| MW-13                                                     | 08/17/1994      | 1,165.90        | N        | 1,160.90 | 1,155.29 | <2.     | 45.    | 59.     | 120.    | N       | N      | N     | N          | N              |
| MW-14                                                     | 08/18/1994      | 1,165.90        | N        | 1,165.40 | 1,155.42 | <2.     | <2.    | <2.     | <2.     | N       | N      | N     | N          | N              |

Monitoring Plan LUST 7LTAD6 - BH3, MW2, MW5, MW8, MW10, MW13, MW15



- LEGEND**
- - SOIL SAMPLE LOCATION
  - △ - SOIL BORING LOCATION
  - ▲ - SOIL VAPOR WELL LOCATION
  - ⊕ - MONITORING WELL LOCATION
  - B - BASEMENT
  - T — TELEPHONE
  - SS — SANITARY SEWER
  - V — WATER MAIN
  - GAS — NATURAL GAS
  - FO — FIBER OPTIC
  - OHV — OVERHEAD POWER

SITE VICINITY MAP  
PERSIA OIL COMPANY  
102 NORTH RAILROAD STREET  
PERSIA, IOWA  
PROJECT NO. 40997192  
FILE NO. 7192ESCM



*Persia Oil (North)*[UST Database Home](#)[Corrections Form](#)[Site Lists](#)[Search For](#)[UST Sites](#)[Leaking UST Sites](#)[UST Information](#)[Site Information](#)[Leaking UST](#)[Information](#)[Release Reported](#)[Tier 1](#)[Tier 2](#)[Tier 3](#)[Free Product](#)[Site Classification](#)[Remediation Tech](#)[Site Certified GWP](#)[UST Home](#)[ESD Home](#)[DNR Home](#)[State of Iowa](#)**TIER 2 ASSESSMENT**Description of Tier 2 Assessment**Leak Number** 7LTA06**Registration No.** 198811664**Leaking UST Class.** LOW RISK**Site Status** REGULATED TANKS - REMOVED/FILLED**Site Name** PERSIA OIL CC**Site Address** 3657 296TH ST**Site City** PERSIA**County** HARRISON**Pathway Classification - #7LTA06****GROUNDWATER (GW) PATHWAY**Description**GW Ingestion: Actual - drinking water well** No Further Action**GW Ingestion: Potential - nondrinking water well** No Further Action**GW Ingestion: Potential - protected groundwater** Low Risk**Groundwater Vapor to Enclosed Space** Low Risk**Groundwater to Plastic Water Line** No Further Action**SURFACE WATER PATHWAY**Description**Surface Water - General Use** No Further Action**Surface Water - Designated Use** No Further Action**SOIL PATHWAY**Description**Soil Leaching to Groundwater** No Further Action**Soil Vapor to Enclosed Space** Low Risk**Soil to Plastic Water Line** No Further Action**RECOMMENDATION**Description**Consultant Recommended** Low Risk**Tier 2 Assessment Reports - #7LTA06****Date Due**  
6/20/2000**Date Received**  
6/19/2000**Date Accepted**  
8/21/2000**Date Rejected****DESCRIPTION OF TIER 2 ASSESSMENT**

The purpose of Tier 2 assessment is to collect additional site-specific data and, with the use of Tier 2 fate and transport modeling, determine what actual and potential receptors could be impacted by



*Persia Oil (North)*

UST Database Home

Corrections Form

Site Lists

Search For

UST Sites

Leaking UST Sites

UST Information

Site Information

Leaking UST

Information

Release Reported

Tier 1

Tier 2

Tier 3

Free Product

Site Classification

Remediation Tech

Site Certified GWP

UST Home

ESD Home

DNR Home

State of Iowa

## SITE CLASSIFICATION

## Description of Site Classification

Leak Number 7LTA06

Registration No. 198811664

Leaking UST Class. LOW RISK

Site Status REGULATED TANKS - REMOVED/FILLED

Site Name PERSIA OIL CC

Site Address 3657 296TH ST

Site City PERSIA

County HARRISON

Risk Classification - #7LTA06

Classification Date 2/20/2001

Risk Classification Low Risk

Corrective Actions - #7LTA06

Date Release Not Verified

No Action Required-Free Product Removal No

Date Transferred to Contaminated Sites Section

Cleanup Start Date 5/1/1995

Cleanup Completion Date

Date No Further Action Certificate Sent

Institutional Control - #7LTA06

Institutional Control Obtained No

Type of Institutional Control

Date Institutional Control Obtained

Site Monitoring Report (SMR) - #7LTA06

| Date Due   | Date Received | Date Approved | Date Rejected | Type of SMR      | Reclass. Req |
|------------|---------------|---------------|---------------|------------------|--------------|
| 10/31/2000 | 1/8/2001      | 2/20/2001     |               | Reclassification | Low Risk     |

10/30/2002

Low Risk

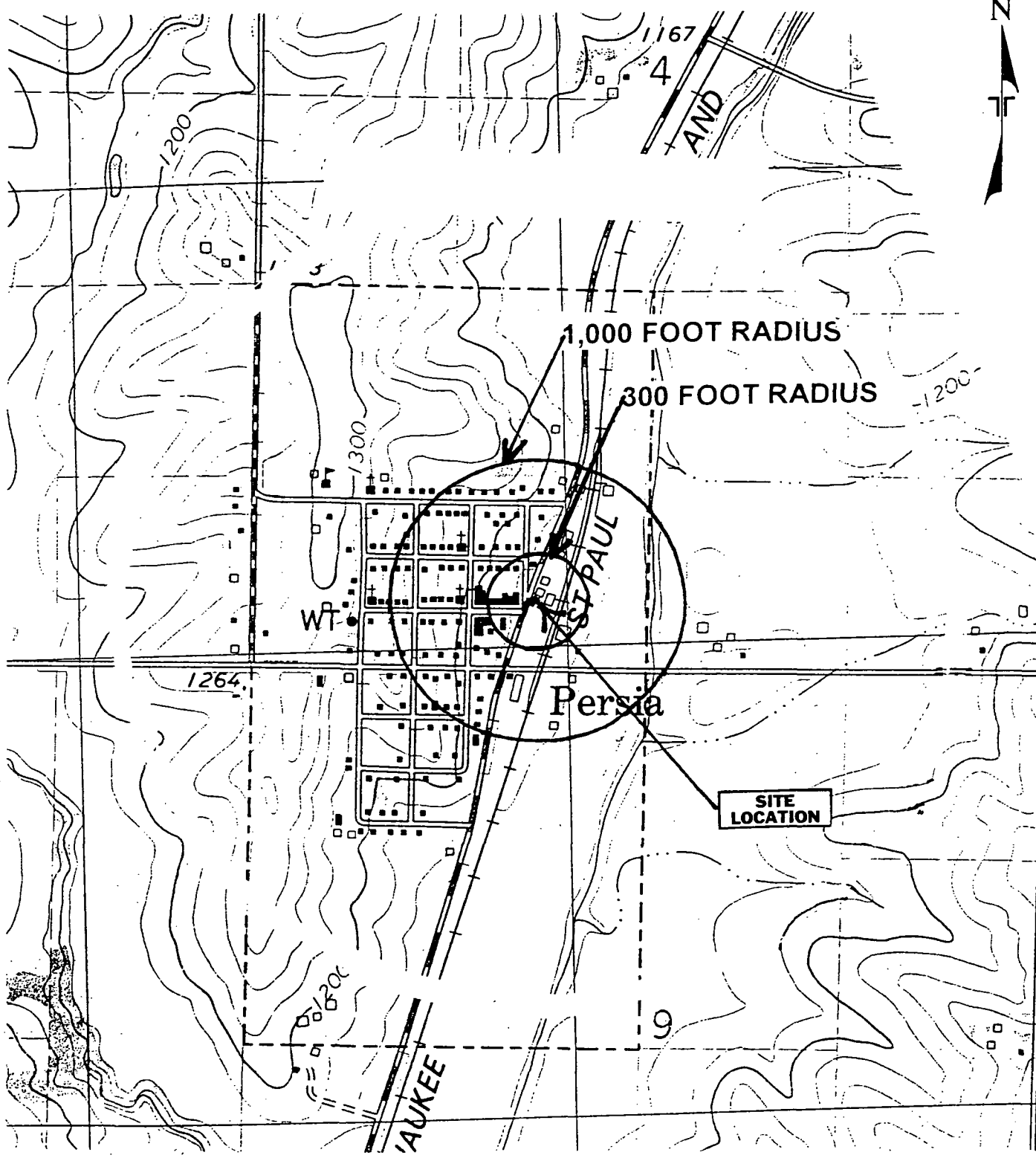
## DESCRIPTION OF SITE CLASSIFICATION

A Leaking UST site is classified according to the risk it may pose to public health and safety or the environment.

The tank owner or operator may have to retain a certified groundwater professional to monitor the conditions at the site. The monitoring plan must be approved by the department before it is implemented.

Site Monitoring Reports (SMR) are submitted to the department for



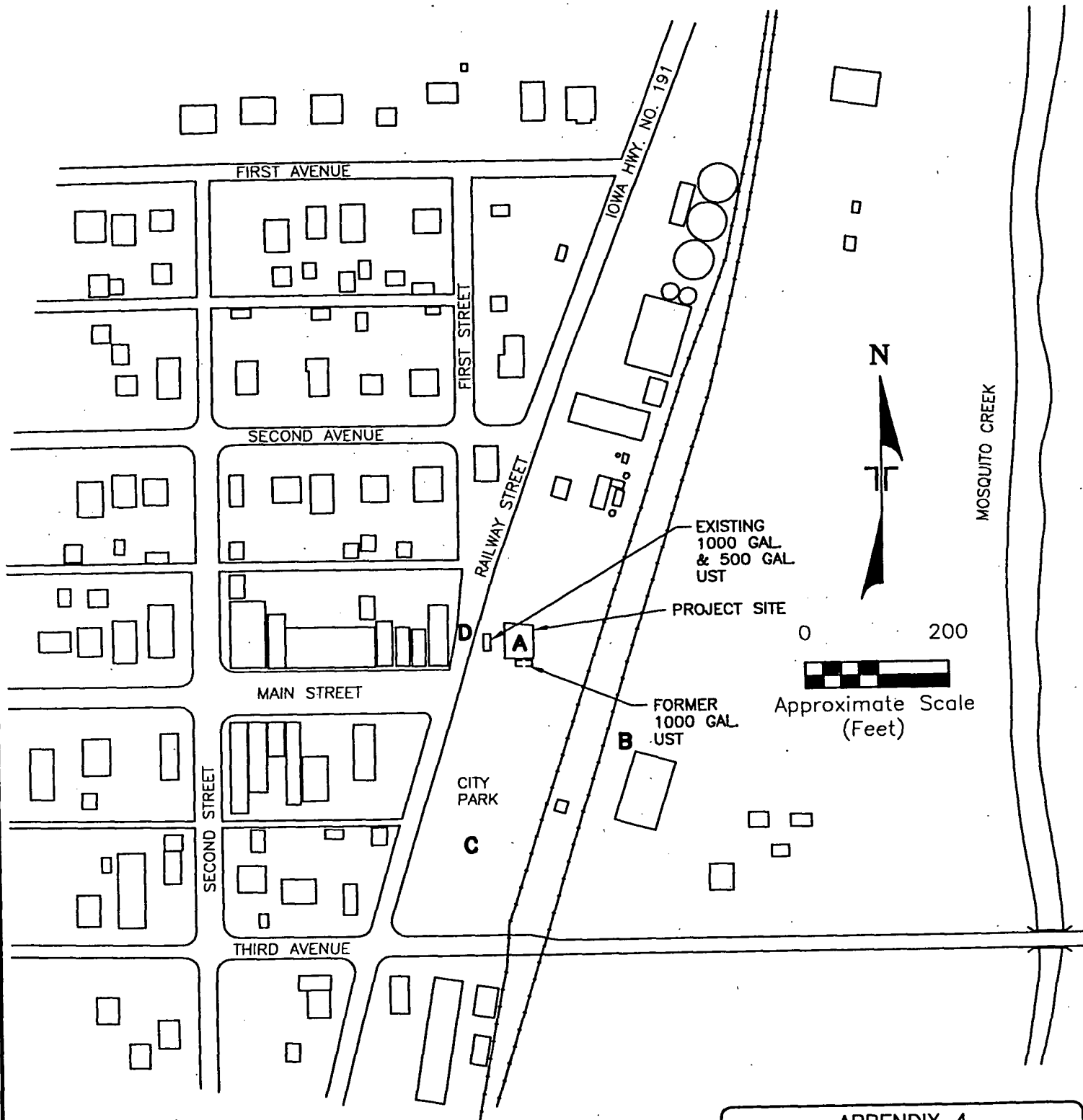


0 1000  
Approximate Scale  
(Feet)

WELL SURVEY MAP

PERSIA OIL COMPANY  
102 NORTH RAILROAD STREET  
PERSIA, IOWA  
PROJECT NO. 40997192  
FILE NO.

**Terracon**  
alb 1/00



APPENDIX 4  
 II(F)-SITE VICINITY MAP  
 PERSIA OIL COMPANY  
 102 NORTH RAILWAY STREET  
 PERSIA, IOWA  
 PROJECT NO. 40935146  
 FILE NO. 3E146-2

