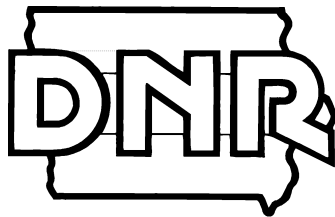


# **Methyl tertiary-Butyl Ether (MTBE) Occurrence in Iowa**

A Report for the 2000 Session of the Seventy-Eighth General Assembly



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## ***Executive Summary***

The Iowa Legislature passed 1999 Iowa Acts, House File 772 that contains a provision requiring soil and groundwater samples collected at leaking underground storage tank (LUST) site investigations after July 1, 1999 be analyzed for methyl tertiary-butyl ether (MTBE). This law was in response to growing national concern over MTBE contamination in groundwater and drinking water supplies. The primary objective is to determine MTBE presence and concentration in Iowa's soil and groundwater. Based on the findings, the secondary objective is to determine whether the occurrence and levels are significant to warrant regulatory action in order to protect public health and the environment.

A total of 3,257 samples were collected from 603 LUST sites from July 1, 1999, through December 17, 1999. Groundwater samples obtained from monitoring wells at LUST sites comprise the majority of the data. Samples from soil, plastic water lines, drinking water wells, non-drinking water wells, surface waters, sumps, and treatment system influent and effluent were also included in the data set.

Approximately 32% of the 2,569 groundwater samples collected reported MTBE levels above the quantitation limit of 15 micrograms per liter ( $\mu\text{g/L}$ ). Nearly 29% of the groundwater samples showed MTBE levels above the United States Environmental Protection Agency's (USEPA) lower Health Advisory Level (HAL) of 20  $\mu\text{g/L}$ . However, of the LUST sites sampled, approximately 55% sites detected levels above the lower HAL. The highest reported concentration of MTBE in groundwater was **99,400  $\mu\text{g/L}$** . The average concentration of samples that equaled or exceeded 15  $\mu\text{g/L}$  was **613  $\mu\text{g/L}$** . Utilizing all samples the average groundwater concentration was 200  $\mu\text{g/L}$ . Considering only the maximum MTBE concentration reported for a site, the average concentration in groundwater for all LUST sites was 574  $\mu\text{g/L}$ .

Of the 635 soil samples collected, approximately 60% reported MTBE levels above the quantitation limit of 0.015 milligrams per kilogram ( $\text{mg/kg}$ ). Approximately 22% of the samples reported MTBE levels above 10  $\text{mg/kg}$ . The highest soil concentration was reported as **less than 5,000  $\text{mg/kg}$** . The average concentration of samples that equaled or exceeded 0.015  $\text{mg/kg}$  was **122.5  $\text{mg/kg}$** . Utilizing all samples the average concentration for soil was 72.9  $\text{mg/kg}$ . Considering only the maximum MTBE concentration reported for a site, the average MTBE maximum concentration in soil for all LUST sites was 138  $\text{mg/kg}$ .

Water samples were also collected from 53 various receptors (drinking water wells, plastic water lines, etc.). Of these, only five samples had a concentration greater than the laboratory's quantitation limit of 15  $\mu\text{g/L}$ . One sample from a private drinking water well in northeast Iowa showed MTBE concentrations (23.7  $\mu\text{g/L}$ ) above the USEPA's lower HAL (20  $\mu\text{g/L}$ ).

Based on these findings, the department recommends regulating MTBE as a chemical of concern. This would entail, under the current risk-based corrective action (RBCA) program, determining which exposure pathways should be considered and establishing MTBE target levels

specific to those pathways. Testing for MTBE during standard LUST site investigations would continue. Possible exceptions might be warranted when 1) the release under investigation is determined to be a semi-volatile petroleum substance (e.g., diesel, waste oil); and 2) after an initial assessment of a release, it is determined MTBE is not present in the subsurface. Considering the second exception, testing for MTBE during tank closure activities is recommended. If MTBE is regulated, the department recommends sites previously classified as No Action Required not be reopened unless a public health or environmental risk can be traced to a particular site.

## **Overview**

Methyl tertiary-butyl ether (MTBE), an additive to gasoline, has been detected in many drinking water supplies across the country, including Iowa. In August 1987, Well #1 of the Fayette Municipal Water Supply in Iowa was restricted to emergency, or standby use only status, and later permanently closed due to the detection of MTBE. More recently, MTBE was detected at low levels in water samples collected from Ida Grove water supply wells. MTBE, a fuel supplement intended to reduce harmful motor vehicle emissions, ironically is causing groundwater contamination and public health concerns.

## **Background**

Under the Clean Air Act Amendments (CAAA) of 1990, Reformulated Gasoline (RFG) is required to be sold in regions of the United States where ozone or carbon monoxide air quality standards are exceeded (non-attainment areas). RFG must contain at least 2% oxygen by weight per the CAAA. This requirement is met with the use of oxygenates, which the American Society for Testing and Materials (ASTM) defines as oxygen-containing, ashless, organic compounds, such as alcohols or ethers, which can be used as fuel or fuel supplements. In the late 1970s and 1980s, oxygenates were used to meet lead phaseout requirements as octane enhancers and fuel extenders.

The most commonly used oxygenates in RFG include MTBE and ethanol (EtOH). MTBE is favored over other oxygenates because of its low cost, ease of production, and favorable transfer and blending characteristics (Zogorski et al. 1997). Methanol (MeOH), ethyl tertiary-butyl ether (ETBE), tertiary-amyl methyl ether (TAME), diisopropyl ether (DIPE), and tertiary-butyl alcohol (TBA) are among the less commonly used and therefore, less studied. However, as MTBE environmental problems come to light, and with the potential for increased future use, health and environmental effects of these other oxygenates are being carefully examined.

MTBE has been used in gasoline since 1979. Originally used as an octane booster, with the RFG mandate, its use has increased substantially in non-attainment areas of the United States. The percentage of MTBE added to gasoline has also increased. MTBE comprises 10 to 15% by volume of RFG. Fortunately, levels of ozone and carbon monoxide in Iowa's air do not exceed

standards set by the USEPA and therefore, the use of RFG is not mandated. According to the Iowa Department of Agriculture and Land Stewardship, and the Petroleum Marketers of Iowa (PMI), MTBE currently is not used or sold in the State of Iowa.

### Physical and Chemical Properties

The fate and transport properties of MTBE in the subsurface are not fully known. The physical and chemical properties (Table 1), however, can give some insight on how MTBE may behave in the environment, as well as how to approach clean up of MTBE contaminated groundwater. The physical and chemical properties of benzene are also provided in Table 1 for comparison purposes.

- Henry's Law Constant (H) is a measure of the tendency of a dissolved compound to volatilize. Volatilization is likely to occur when a chemical's Henry's Law Constant is greater than 0.05. This property has remediation implications. For example, compared to benzene (H=0.22), MTBE (H=0.018) may be more difficult to "strip" from contaminated groundwater.
- Vapor pressure is the tendency for a compound to volatilize from its pure liquid phase. Significant volatilization occurs if a chemical's vapor pressure is greater than 100 mm Hg. For an MTBE release (v.p. ~ 250 mm Hg), vaporization of residual product from a dry soil environment can be expected. However, MTBE is highly soluble in water (~43,000 mg/L), so once in contact with groundwater or water in the pore spaces of a soil matrix, significant volatilization is not likely to occur.
- Log Koc is the normalized organic partition coefficient, and it is a measure of a chemical's adsorption to organic carbon. The higher the Koc value, the more a chemical "sticks" to carbon. In a soil with a high fraction of organic carbon, sorption can act to retard contaminant migration in groundwater.

Compared to benzene, toluene, ethylbenzene, and xylenes (BTEX), MTBE and other ether oxygenates are significantly less degradable, while ethanol and methanol are more easily degradable (Zogorski et al. 1997). MTBE has a higher solubility and lower sorption capacity than BTEX compounds. Therefore, it has the potential to generate longer plumes, higher source concentrations, and have longer persistence in the environment. This difference between BTEX compounds and MTBE can be particularly pronounced in aquifers with high organic carbon content. The longer migration distances of MTBE can increase the chances of drinking wells becoming contaminated.

Another point of interest in Iowa is the increased likelihood for shallow drinking water sources located in bedrock to become contaminated. Certain bedrock types, particularly fractured systems, may act as preferential pathways for contaminants to reach potable groundwater. This is a particular concern for northeast Iowa where fractured bedrock can be less than 50 feet below ground surface, near or in contact with petroleum releases.

## Health Effects

Although there is no established drinking-water regulation for MTBE, USEPA has issued a drinking-water advisory of **20 to 40 µg/L** on the basis of taste and odor thresholds. This advisory concentration is intended to provide a large margin of safety for noncarcinogenic effects and is in the range of margins typically provided for potential carcinogenic effects (USEPA 1997).

Additionally, the following draft Drinking Water Health Advisory Levels (HAL) for MTBE are being considered by USEPA (USEPA 1996):

HAL <sub>lifetime</sub> (Adult)	=	20 – 200 µg/L(ppb)
DWEL (Drinking Water Equivalent Level)	=	1000 µg/L
HAL <sub>longterm</sub>	=	12,000 µg/L

The lifetime HAL is the concentration of a chemical in drinking water that is not expected to cause any adverse noncarcinogenic effects over a lifetime of exposure, with a margin of safety. The Drinking Water Equivalent Level (DWEL) is a lifetime exposure concentration protective of adverse, non-cancer health effects, that assumes all of the exposure to a contaminant is from a drinking water source. The long-term HAL is the concentration of a chemical in drinking water that is not expected to cause any adverse noncarcinogenic effects up to approximately seven years (10% of an individual's lifetime) of exposure, with a margin of safety.

The USEPA is in the process of revising the cancer guidelines. MTBE has tentatively been designated as a Group C – *possible* human carcinogen. If the Group C cancer designation is accepted as final, the HAL<sub>lifetime</sub> will be 20 µg/L (equivalent to ppb). The USEPA defines the carcinogenic potential of a Group C carcinogen as “limited evidence from animal studies and inadequate or no data for humans” (USEPA 1996). Toxicity studies have documented carcinogenic effects in rats and mice from exposure to MTBE by inhalation or oral dosage (Chun et al. 1992, Bird et al. 1997, Burleigh-Flayer et al. 1992, Belpoggi et al. 1995, 1997, 1998). Noncarcinogenic health effects have also been documented in animal studies (Bevan et al. 1997b, Tyl and Neeper-Bradley, 1989, Moser et al. 1998, Daughtrey et al. 1997).

The health effects of other oxygenates like diisopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), tertiary-amyl methyl ether (TAME), and tertiary-butyl alcohol (TBA) have been less widely studied than MTBE. Health advisories for these chemicals have not been established. The carcinogenic effects of TAME and ETBE are unknown, but animal studies have shown neurotoxic and acute health effects (White et al. 1995, Daughtrey and Bird 1995, Dorman et al. 1997). Animal studies have shown some evidence of carcinogenic effects as well as reproductive and acute effects from TBA exposure (Cirvello et al. 1995, NTP 1995).

## Overview of MTBE Policy in the U.S.

Concern over MTBE as a groundwater pollutant began when environmental monitoring and testing of water supply wells, coincidental with the high-volume use of MTBE, revealed contamination. Consequently many nationwide studies were launched to determine the impact of MTBE in groundwater and in drinking water supplies. California, New York, and Maine are among the more studied and progressive states.

In 1997, MTBE contamination caused the shutdown of several California wells including some which supply water to half of Santa Monica's residents and businesses. As a result of these incidences, California began testing public water supply systems for MTBE. Of the 3200 water supply sources tested, 1.2% were contaminated above 5 ug/L. As many as 10,000 groundwater sites throughout the State of California have been contaminated with MTBE (Keller, 1998). In an effort to address current and future MTBE pollution problems, California's recently adopted a Public Health Goal (PHG) of 13 µg/L for MTBE in drinking water and secondary standard of 5 µg/L based on taste and odor. Currently MTBE is added to almost all of the gasoline used in California as a means of meeting the requirements of the CAAA of 1990. The California Air Resources Board, however, recently approved rules that ban the use of MTBE as a gasoline additive after December 31, 2002.

New York's Department of Environmental Conservation is expected to lower the allowable concentrations of MTBE in groundwater and surface water from 50 µg/L to 10 µg/L (cleanup level). New York's Department of Environmental Health also will be changing their drinking water standard for MTBE to 10 µg/L.

In 1998 the State of Maine completed a survey of public and private wells for presence of MTBE. Water samples were collected from 793 public wells and 949 private wells. Low levels (between 0.2 and 35 ug/L) were detected in 16% of the public wells and in nearly 14 % of the private wells. MTBE was detected at levels greater than 35 ug/L (Maine's cleanup level) in 1.1% of the private wells tested (State of Maine 1998).

## MTBE Standards for Other States

Most states have or are projected to establish by the end of 2000 MTBE groundwater cleanup levels (Figure 1) (Delta Environmental Consultants, 1999). However, 12 states, including Iowa, have indicated they are waiting for the USEPA to set a Maximum Contaminant Level (MCL) for drinking water. Leading the nation in establishing levels and applying stringent standards are California and New York. California's Public Health Goal (PHG) for drinking water is 13 µg/L and its enforceable secondary standard is 5 µg/L based on taste and odor. New York's Department of Environmental Conservation is expected to lower the allowable concentrations of MTBE in groundwater and surface water from 50 µg/L to 10 µg/L. Wyoming's cleanup level is the least stringent at 200 µg/L. Some states have varying cleanup levels based on distance to receptors or risk-based evaluations. Many states base their cleanup level on whether groundwater use is potable or nonpotable, and cleanup levels can vary significantly depending on



use. For example, Maine's cleanup level is 70 µg/L for potable groundwater, and 50,000 µg/L for nonpotable groundwater. Hawaii's cleanup level is 20 µg/L for potable groundwater, and 202,000 µg/L for nonpotable groundwater.

Only two of USEPA Region 7 states (Iowa, Kansas, Missouri, Nebraska) have set cleanup levels for MTBE at LUST sites. Cleanup levels in Missouri are 40 µg/L or 400 µg/L based on whether the groundwater use is considered potable or non-potable. Missouri has indicated their standards will likely change to 20 µg/L and 200 µg/L in January 2000. The cleanup level in Kansas is for potable water only (20 µg/L). A cleanup level has not been established for non-potable water. Iowa and Nebraska currently have not set MTBE cleanup levels.

A survey conducted by the University of Massachusetts indicates that fifteen states have established standards for MTBE in soil. Soil action levels (concentrations that trigger assessment and/or remediation) range from 0.05 mg/kg in Maine and New York to 60 mg/kg in Missouri (University of Massachusetts, 1998). Some states have varying soil cleanup levels based on distance to receptors, risk-based evaluations, or on what may leach into drinking water.

#### MTBE Regulation in Iowa

Iowa has joined the growing national concern over the potential for MTBE to contaminate groundwater. In 1999 the Iowa Legislature passed House File 772. Section 15, paragraph 4 "c" of this legislation requires testing for MTBE on soil and water samples collected at leaking underground storage tank (LUST) sites after July 1, 1999. The Environmental Protection Commission adopted rules to implement this law in June 1999. The rules were filed both emergency with implementation July 1, 1999 (the effective date of the law) and for notice of public comment. Chapter 135, "Technical Standards and Corrective Action Requirements of Owners and Operators of Underground Storage Tanks," Iowa Administrative Code was amended by adding new rule 135.19 (Appendix A).

The primary objective of this law is to determine MTBE presence and concentration in Iowa's soil and groundwater. Based on the findings, the secondary objective is to determine whether the occurrence and levels are significant to warrant further regulatory action in order to protect public health and the environment.

## ***Sampling Requirements***

To facilitate implementation of the new rules, announcements and guidance documents were sent to affected parties, groundwater professionals, and Underground Storage Tank (UST) Certified Laboratories on June 24, 1999 (Appendix B), and on July 12, 1999 (Appendix C). Departmental guidance clarified parts of the rule and report submittal process by specifying the following:

- All stages of a LUST site investigation must include MTBE analyses (Tier 1, Tier 2, and Tier 3 assessments, annual site monitoring, and corrective action development).
- MTBE analysis must be performed regardless of type of petroleum substance under investigation (e.g., diesel releases).
- Analysis must be performed by laboratories certified under 567 – Chapter 83 of the Iowa Administrative Code (IAC). Samples must be prepared and analyzed by either (1) Gas Chromatograph/ Mass Spectrometry version of OA-1, “Method for Determination of Volatile Petroleum Hydrocarbons (gasoline),” revision 7/27/93, University Hygienic Laboratory, Iowa City, IA, or (2) US Environmental Protection Agency Method 8260B, SW-846, “Test Methods for Evaluating Solid Waste,” Third Edition.
- Results are to be reported in both hard copy form and electronically in a spreadsheet format established by the department.

### Data Analysis and Presentation

Data used in this study were collected from July 1, 1999, through December 17, 1999. Basic statistical analyses were performed on MTBE results for total groundwater samples and for total soil samples. Receptor water samples were not included with the groundwater data set. Receptor samples are those from plastic water lines, drinking water wells (private and municipal), non-drinking water wells, sewers, sumps, surface waters, as well as groundwater treatment system influent and effluent. (Under Iowa’s UST RBCA program, receptors are enclosed spaces, buried conduits, plastic water lines, protected groundwater sources, drinking and nondrinking water wells, and surface water bodies which when affected by chemicals of concern may result in exposure to humans and aquatic life, explosive conditions or other adverse effects on health, safety and the environment. Chapter 567 IAC 135 outlines the requirements for evaluating these receptors and determining the risk a regulated substance (e.g., petroleum) may pose).

Average concentration, median concentration, maximum concentration, and concentration distributions were determined for soil and groundwater samples. The average or arithmetic mean is the sum of sample concentrations divided by the total number of samples. The median is middle value in a distribution where 50 percent of the observations (samples) are above the value and 50 percent are below the value. Concentration distribution ranges selected were based on significant reference concentrations (e.g., <15 µg/L – the MTBE quantitation limit laboratories must be capable of meeting as set by rule; 20 µg/L – the lower HAL, etc.) and then by orders of magnitude for the higher ranges.

In addition to sample totals, the department was interested in knowing the occurrence and maximum concentration of MTBE at LUST sites (e.g., how many LUST sites were contaminated with MTBE, how many LUST sites identified MTBE above the HAL, etc.). For each site, only the maximum soil and groundwater MTBE concentrations were considered. All other samples for a site were dropped from the data set. The average and median of the maximum MTBE concentrations for all LUST sites was calculated for both soil and groundwater. The distribution of MTBE maximum concentrations for LUST sites was also determined. Concentration distribution ranges selected were based on significant reference concentrations and then by orders of magnitude for the higher ranges as stated previously.

It should be noted that higher quantitation limits often result from a highly contaminated sample. A sample could contain a very large amount of MTBE, such that the volume or concentration exceeds the ability of the instrumentation to make a precise and accurate measurement. Thus, a dilution prior to analysis is required. A highly contaminated sample may also have interfering chemicals that mask the actual MTBE value. This contamination may be from a number of different hydrocarbons found in a petroleum-laden sample, not necessarily MTBE alone. *When calculating averages and medians for this project, a concentration equal to one half of the reported detection limit was assigned to samples with results reported as less-than values (e.g., <200 µg/L was adjusted to 100 µg/L).* Data distributions presented in this report are also based on adjusted values. Because a sample cannot reliably be quantified below the detection limit (it is unknown how much less than 200 µg/L the concentration is), this adjustment assigns a value midway between the highest and lowest assumed concentrations (e.g., 200 µg/L and 0 µg/L). This method of data adjustment is commonly used by the USEPA.

## **Results**

As part of the standard site investigation procedures, a total of 3,257 samples were collected from 603 LUST sites across Iowa. This sampling yields an average of 5.4 samples per site. MTBE analyses were performed on samples of soil, groundwater, plastic water lines/tap, sewers, surface waters, non-drinking water wells, private drinking water wells, and municipal water wells (Table 2). Groundwater samples collected from monitoring wells during annual site monitoring events or RBCA investigations comprise the majority of the data. MTBE concentrations in soil and groundwater samples (prior to data adjustment) are presented in Tables 3 and 4, respectively. The data are sorted by city where the samples were collected, and the ten samples with the highest MTBE concentrations are highlighted.

MTBE results for water samples collected from receptors (e.g., plastic water lines, drinking water wells) are presented in Table 5. Of the 53 receptor samples, only five had a concentration greater than the laboratory's quantitation limit of 15µg/L. One receptor sample from a private drinking water well in northeast Iowa showed MTBE concentrations (23.7 µg/L) above USEPA's lower HAL (20 µg/L).

## MTBE in Groundwater

Quality of data: A total of 2,569 groundwater samples were collected.

- 1,786 groundwater samples reported MTBE concentrations as less-than values (<x)
  - 1,456 of these reported levels as <15 µg/L or below (e.g., <2 µg/L).
  - 330 of these reported levels as “<”, but at some value above 15µg/L (e.g., <50 µg/L).
- 783 groundwater samples positively identified MTBE (no “<” qualifier)
  - 573 of the positive samples were equal to or greater than 15 µg/L.
  - 210 positively identified MTBE, but at levels below 15 µg/L.

### **Total Groundwater Samples**

Approximately 32% of the groundwater samples analyzed reported MTBE levels above 15 µg/L. Nearly 29% of groundwater samples analyzed showed MTBE levels above the USEPA’s lower HAL of 20 µg/L (Figure 2). The highest groundwater concentration reported was 99,400 µg/L. This sample was considered anomalous and not included in the data analysis. The next highest groundwater concentration reported was 42,500 µg/L. The average MTBE concentration for all groundwater samples which equaled or exceeded 15 µg/L was 613 µg/L, with a median of 81 µg/L. Utilizing all samples, including those reporting results less than 15 µg/L, the average MTBE concentration for groundwater was 200 µg/L, with a median of 5 µg/L.

### **Groundwater Maximums per LUST Site**

Groundwater samples were collected at 523 sites from 248 Iowa cities. As can be expected, more sites were sampled in the more populous cities: Des Moines (41 sites), Davenport (19), Cedar Rapids (16), Sioux City (15). In breaking down the number of LUST sites where groundwater was tested for MTBE, it was determined that 26% were located in DNR Region 5 (Figure 3).

To determine the occurrence of MTBE in groundwater on a LUST site basis, the maximum concentration was selected from each site and all other groundwater data for that site were ignored. Figure 4 shows the MTBE distribution in groundwater based on maximum concentrations at each LUST site. The average concentration of the MTBE maximums for the 523 sites was then determined. The average concentration for groundwater samples that equaled or exceeded 15 µg/L was 967 µg/L, with a median of 119 µg/L. Utilizing all groundwater maximum samples including those with reported results less than 15 µg/L, the average concentration was 574 µg/L, with a median of 40.9 µg/L. MTBE was detected above the quantitation level of 15 µg/L at approximately 59% of the LUST sites, and above the USEPA’s lower HAL of 20 µg/L at approximately 55% of the LUST sites.

## MTBE in Soil

Quality of data: A total of 635 soil samples were collected.

- 562 soil samples reported MTBE concentrations as less-than values (<x)
  - 234 of these reported levels as <0.015 mg/kg or below (e.g., <0.002 mg/kg).
  - 328 of these reported levels as “<”, at some value above 0.015 mg/kg (e.g., <50 mg/kg).
- 73 soil samples positively identified MTBE (no “<” qualifier)
  - 72 of the positive samples were equal to or greater than 0.015 mg/kg.
  - 1 sample positively identified MTBE, but at levels below 0.015 mg/kg.

### **Total Soil Samples**

Of the 635 soil samples tested, approximately 60% reported MTBE levels above the quantitation limit of 0.015 mg/kg (Figure 5). Approximately 22% reported MTBE levels above 10 mg/kg. The highest MTBE concentration was reported as less than 5,000 mg/kg for three soil samples. The next highest concentration was quantified as 2,460 mg/kg. The average concentration of MTBE in all soil samples which equaled or exceeded 0.015 mg/kg was 122.5 mg/kg, with a median of 5 mg/kg. Utilizing all soil samples, including those reporting results less than 0.015 mg/kg, the average MTBE concentration was 72.9 mg/kg, with a median of 0.18 mg/kg.

### **Soil Maximums per LUST Site**

Soil samples were collected at 179 sites from 100 Iowa cities. The results parallel those of groundwater with more sites being sampled in the more populous cities: Des Moines (15 sites), Ottumwa (8), Ames and Davenport (7), Cedar Rapids and Sioux City (5). A breakdown by state region of the LUST sites which tested soil for MTBE was determined (Figure 6). Soil samples were collected from more LUST sites in DNR Region 5 than any other region of the state (27%).

To determine the occurrence of MTBE in soil on a LUST site basis, the maximum concentration from each site was selected and all other soil data for a site were ignored. Figure 7 shows the MTBE concentration distribution in soil based on maximums at each LUST site sampled. The average of the MTBE maximums for the 179 sites was then determined. The average concentration for soil samples that equaled or exceeded 0.015 mg/kg was 225 mg/kg, with a median of 0.27 mg/kg. Utilizing all soil maximums, including samples with reported results less than 0.015 mg/kg, the average concentration was 138 mg/kg, with a median of 0.18 mg/kg. MTBE was detected above the quantitation level of 0.015 mg/kg at approximately 62% of the LUST sites sampled.

## Other Oxygenates

Laboratories performing MTBE analyses are also required to run standards for other possible compounds like diisopropyl ether (DIPE), ethyl-tertiary butyl ether (ETBE), tertiary-amyl methyl ether (TAME), and tertiary-butyl alcohol (TBA) to be certain of their identification should they be detected. Laboratories are not required to quantify these chemicals, but in some cases concentrations were reported. (Table 6). DIPE, ETBE, TAME, and TBA were detected in less than 0.1% of the soil samples tested. DIPE, ETBE, TAME, and TBA were detected in less than 1.3% of the groundwater samples tested. These other oxygenates were not detected in drinking water well, plastic water line, sewer, or sump samples.

## ***MTBE in Public Water Supplies (PWS)***

### Bedrock Public Water Supply (PWS) Sampling Project

In the spring of 1999, the Iowa Comprehensive Petroleum Underground Storage Tank Fund Board (ICPUSTB) and the Iowa Department of Natural Resources (IDNR) contracted with the University of Iowa's Hygienic Laboratory (UHL) to conduct analyses of water samples from public water supply (PWS) wells located in Iowa's vulnerable bedrock regions. The purpose of this project is to determine whether petroleum releases in vulnerable bedrock are impacting water supplies. The concern is certain bedrock types, particularly fractured systems, may act as preferential pathways for contaminants to reach groundwater used as drinking water sources. As part of the Risk-Based Corrective Action (RBCA) process, any municipal water supply well located within one mile of a LUST site which is in a vulnerable bedrock region must be sampled for chemicals of concern. In Iowa there are approximately 550 wells (240 PWSs) which meet these criteria (Appendix D).

UHL instructed water supply operators to collect samples from each well and prior to any treatment. Initially samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) using Iowa Method OA-1, and for total extractable hydrocarbons (TEH) using Iowa Method OA-2. When Chapter 135 was amended July 1, 1999, to include MTBE analysis at LUST sites, UHL began analyzing the bedrock-PWS samples for MTBE using the Gas Chromatograph/ Mass Spectrometry version of Iowa Method OA-1.

### Bedrock PWS Sampling Project Results

During the initial sampling event conducted in the second and third quarters of 1999, 530 water samples were obtained from 235 public water supplies. MTBE was not detected above the quantitation limit (15 µg/L) in any of the PWS samples. During the fourth quarter 1999 sampling event, 518 samples were analyzed with no MTBE concentrations detected above the quantitation limit (15 µg/L) in any of the samples. MTBE was identified below the quantitation

limit for eight samples. These samples were collected from the following water supply wells: Ackley (well 3), Independence (well 6 and well 7), LeClaire (well 1), Maquoketa (well 3 and well 4), Montour (well 2) and Wyoming (well 2).

Currently, the results from the Bedrock PWS Sampling Project are available for review in hardcopy form at the DNR Records Center, Wallace State Office Building, Des Moines. Individual PWS records are filed under LUST Bedrock by Public Water Supply (e.g., LUST Bedrock PWS - Albion). A summary of results for all PWS's sampled is filed under "LUST Bedrock PWS – Summary. These records are also available on the UST web page: <http://www.state.ia.us/epd/ust/lqust.htm>.

### Other Known PWS Impacts

Although not part of the bedrock sampling project, MTBE was detected at low levels in water samples collected from municipal water supply systems for the cities of Ida Grove (Ida County), Galva (Ida County), and Alford (Lyon County). These water supplies are located in DNR Region 3 in northwest Iowa. MTBE has been detected at low levels in Ida Grove's drinking water supply each quarter since 1997. The highest level reported was 12.0 µg/L for a sample collected September 24, 1998 from Well #3 after treatment, but before blending with water from other source wells. The most recent sample (11/29/1999) showed 6.3 µg/L. A concentration of 18 µg/L was detected in one sample collected from Galva's drinking water supply system on April 5, 1996. MTBE concentrations of 63 µg/L, 17 µg/L, and 15 µg/L were detected in Alford's drinking water supply in January, August, and October of 1994, respectively. Both Galva and Alford have abandoned their water supply wells and are utilizing another regional rural water source, due in part to MTBE contamination.

## **Conclusions**

MTBE has been identified in approximately 32% of the groundwater samples tested. Nearly 29% of the groundwater samples exceeded USEPA's recommended lower HAL of 20 µg/L. However, of the LUST sites sampled, approximately 55% of the sites detected levels which may present a public health concern (i.e., above the lower HAL). MTBE has been detected in approximately 60% of the soil samples tested, and at approximately 62% of the LUST sites testing for MTBE. The frequency of MTBE detected in soil is surprising. Given its physical and chemical properties, and that fact that most of the releases under investigation have reached surficial aquifers, a higher frequency of MTBE groundwater contamination would be expected. Although MTBE was detected at low levels in private and municipal wells in Iowa, the number of documented incidences raises concerns about the likelihood of future impacts.

Because ozone and carbon monoxide levels in Iowa's air have not exceeded standards set by the USEPA, the use of RFG is not mandated in Iowa. Petroleum Marketers of Iowa (PMI) reports MTBE is not currently used or sold in the state. MTBE found in Iowa's soil and groundwater

today is most likely the result of releases that occurred in the late 1970's and 1980s when its use as an octane enhancer in the state was more common. In an effort to ensure that MTBE does not cause harm to public health or the environment, House File 772 also contains a provision stating that "as of 2/1/2000 no retail dealer shall offer for sale in this state a motor vehicle fuel that contains more than 2% MTBE..". With the enforcement of this law, future contamination of Iowa's soil and groundwater can be minimized. However, existing MTBE contamination must be addressed.

Careful consideration should be given to implementing a significant change in Iowa's regulations regarding the assessment of leaking underground storage tanks through introducing MTBE as a chemical of concern. Based on the findings of this project, the department recommends regulating MTBE as a chemical of concern under the current risk-based corrective action program. This would entail determining which exposure pathways should be considered and establishing MTBE target levels specific to those pathways. If MTBE is regulated, the department recommends sites previously classified as No Action Required not be reopened unless a public health or environmental risk can be traced to a particular site.

For immediate consideration, the department recommends the following when implementing regulations:

- Testing for MTBE during standard LUST site investigations should continue. Possible exceptions may be warranted when 1) the release under investigation is determined to be a semi-volatile petroleum substance (e.g., diesel, waste oil); and 2) after an initial assessment of a release, it is determined that MTBE is not present in the subsurface.
- Considering the second exception above, testing for MTBE during tank closure activities should be performed.
- Further investigation of those sites where extremely high levels of MTBE have been identified should be conducted. The department should determine the potential for exposure to the public through drinking water supplies (e.g., determine whether the MTBE plume has been defined and the location of drinking water wells in relation to the MTBE contamination).



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## Appendix A

### ENVIRONMENTAL PROTECTION COMMISSION[567]

#### Adopted and Filed Emergency

Pursuant to the authority of Iowa Code section 455B.474, the Environmental Protection Commission proposes to amend Chapter 135, "Technical Standards and Corrective Action Requirements of Owners and Operators of Underground Storage Tanks," Iowa Administrative Code by adding new rule 135.19.

This amendment establishes requirements for analyzing for methyl tertiary-butyl ether (MTBE) in soil and water samples collected as part of investigations and corrective action at underground storage tank sites with petroleum contamination. This change is needed to implement 1999 Iowa Acts, House File 772 which becomes effective July 1, 1999.

1999 Iowa Acts, House File 772, Section 15, paragraph 4“c” requires; “At sites where groundwater or soil monitoring is required, pursuant to section 455B.474, subsection 1, paragraph "d", "f", or "h", the department of natural resources shall require that monitoring include testing for the presence of methyl tertiary-butyl ether from the locations where other sample analyses are required. The department shall provide regular updates to the interim committee established in paragraph "b" as required by the interim committee. The department shall report the findings and recommendations of the testing to the general assembly prior to the 2000 Session of the Seventy-eighth General Assembly.” The provision is effective July 1, 1999.

In compliance with Iowa Code section 17A.4(2), the commission finds that notice and public participation are impractical because of the requirements of H.F. 772 and the immediate need to implement the new provision in order to provide the information to the interim committee and report findings and recommendations to the 2000 Session of the Seventy-eighth General Assembly. This additional sampling procedure does not require any additional field work than would otherwise be required. Analytical costs could double based on a limited survey of private laboratories. The additional MTBE analytical work may exceed the capacity of some private laboratories.

In compliance with Iowa Code section 17A.5(2)“b”(1), the Commission finds that the normal effective date of the amendment should be waived and this amendment should be effective July 1, 1999, which is the effective date of H.F. 772, section 15(4)“c”.

This amendment is also published herein under Notice of Intended Action as **ARC** to allow for public comment. This emergency filing permits the commission to implement the new provision of the law.

This amendment is intended to implement 1999 Iowa Acts, House File 772.

This rule may have an impact on small businesses as provided in Iowa Code section 17A.31.

This amendment becomes effective July 1, 1999.

Amend Chapter 135 by adding the following new rule 135.19 as follows:

**567--135.19 (455B) Analyzing for methyl tertiary-butyl ether (MTBE) in soil and groundwater samples.**

**135.19(1) General.** The objective of analyzing for MTBE is to determine its presence in soil and water samples collected as part of investigation and remediation of contamination at underground storage tank facilities.

**135.19(2) Required MTBE testing.** Soil and water samples must be analyzed for MTBE when collected for risk-based corrective action as required in rules 135.8(455B) through 135.12(455B). This includes but is not limited to:

- a. Risk-based corrective action (RBCA) evaluations required for Tier 1, Tier 2, and Tier 3 assessments and Corrective Action Design Reports.
- b. Site monitoring.
- c. Site remediation monitoring.

**135.19(3) MTBE testing not required.** Soil and water samples for the following actions are not required to be analyzed for MTBE:

- a. Closure sampling under rule 135.15 unless Tier 1 or Tier 2 sampling is being performed.
- b. Site checks under subrule 135.7(3) unless Tier 1 or Tier 2 sampling is being performed.

**135.19(4) Reporting** The analytical data must be submitted in a format prescribed by the department.

**135.19(5) Analytical methods for methyl tertiary-butyl ether (MTBE).** When having soil or water analyzed for MTBE from contamination caused by petroleum or hazardous substances, owners and operators of UST systems must use a laboratory certified under 567--Chapter 83 for petroleum analyses. In addition they must ensure all soil and water samples are properly preserved and shipped within 72 hours of collection to a laboratory certified under 567---Chapter 83 for petroleum analyses.

- a. Sample preparation and analysis shall be by:
  - (1) GC/MS version of OA-1, "Method for Determination of Volatile Petroleum Hydrocarbons (gasoline)," revision 7/27/93, University Hygienic Laboratory, Iowa City, IA, or;
  - (2) US Environmental Protection Agency Method 8260B, SW-846, "Test Methods for Evaluating Solid Waste," Third Edition.
- b. Laboratories performing the analyses must run standards for MTBE on a routine basis, and standards for other possible compounds like ethyl-tertiary butyl ether (ETBE), tertiary-amyl methyl ether (TAME), diisopropyl ether (DIPE), and tertiary-butyl alcohol (TBA) to be certain of their identification should they be detected.
- c. Laboratories must run a method detection limit study and an initial demonstration of capability for MTBE. These must be kept on file.
- d. The minimum detection level for MTBE in soil is 15 ug/kg. The minimum detection level for MTBE in water is 15 ug/l.

## Appendix B

### Memorandum

**DATE:** June 24, 1999

**TO:** LUST Site Owners, Groundwater Professionals, UST Certified Environmental Labs, and Other Interested Parties

**FROM:** James R. Humeston, Supervisor

**RE:** **New Requirement To Analyze For Methyl Tertiary-Butyl Ether (MTBE)**

The 1999 Iowa legislature passed 1999 Iowa Acts, House File 772 that contains a provision in Section 15, paragraph 4”c” requiring testing for MTBE on soil and water samples collected at LUST sites after July 1, 1999. The Environmental Protection Commission adopted rules to implement the law at their June 21, 1999 meeting. The rules were filed both emergency with implementation July 1, 1999, the effective date of the law, and for notice of public comment.

The rules were adopted emergency because of the immediate need to implement the new provision. The department is required to provide the information on the MTBE sampling to a legislative interim committee and report findings and recommendations to the 2000 Session of the Seventy-eighth General Assembly.

Enclosed is a copy of the rules filed emergency. You may send written comments on the rules until Tuesday, August 3, 1999 to James R. Humeston at the above address.

In order to assure reliable and accurate analytical results, the rules require MTBE analysis be conducted by Gas Chromatography/Mass Spectrometry (GC/MS) using the GC/MS version of OA-1 , “Method for Determination of Volatile Petroleum Hydrocarbons (gasoline),” revision 7/27/93, or US Environmental Protection Agency Method 8260B, SW-846, “Test Methods for Evaluating Solid waste,” Third Edition. Using gas chromatography by itself as the analytical method results in false positives or negatives to be reported due to interference.

Any laboratory used for analysis of MTBE must have UST laboratory certification in Iowa. The certified laboratory is not required to have analyte certification for MTBE at this time. The requirements in the rule must be followed.

If you have any questions concerning this memo or on the attached rule proposal, please contact Paul Nelson at 515/281-8779 or by email at pnelson@max.state.ia.us.

## Appendix C

# TANK MEMO



**TO: Groundwater Professionals July 9, 1999**

**FROM: Iowa Department of Natural Resources Volume 3, Issue 3**  
Underground Storage Tank Section  
Wallace Building, Des Moines, IA 50319

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### General Guidance for MTBE Monitoring and Reporting

The Environmental Protection Commission adopted rules on June 21, 1999, to implement an amendment to Chapter 135 which requires soil and water samples collected at LUST sites be tested for methyl tertiary-butyl ether (MTBE). This requirement is **effective July 1, 1999**. These rules can be found on the UST web page (<http://www.state.ia.us/epd/ust/gwprof/gwbb.htm>) or a hard copy may be obtained from DNR by telephoning 515/281-6010.

Applicability: Soil and water samples collected for LUST investigations must be tested for the presence of MTBE. This applies to Tier 1, Tier 2, Tier 3 assessments, site monitoring (pre- and post-RBCA), CADR development and implementation (including pilot testing, excavation samples, etc.), and remediation monitoring (influent and effluent water samples). MTBE analysis does not need to be conducted on samples collected in association with tank closures or site checks unless the site check samples are used in Tier 1 or Tier 2 evaluations.

MTBE analyses must be performed regardless of what type of petroleum release is under investigation (gasoline, diesel, fuel oil, waste oil, motor oil, hydraulic fluid, jet fuel, kerosene, mineral spirits).

Laboratory Analysis: MTBE sample analysis must be performed by a laboratory certified under 567—Chapter 83. A list of Iowa Certified Laboratories may be obtained from DNR by calling 515/281-6010, or from the University Hygienic Laboratory's web page: [http://www.uhl.uiowa.edu/Services/LabCertification/f\\_certified\\_all\\_form.html](http://www.uhl.uiowa.edu/Services/LabCertification/f_certified_all_form.html). Soil and water samples must be properly preserved and shipped to a certified lab within 72 hours of collection. Groundwater professionals must comply with the selected laboratory's requirements and procedures regarding shipping and handling, use of trip blanks, chain-of-custody forms, etc.

Laboratories must use one of the following methods for sample preparation and analysis of MTBE:

- Gas Chromatography/Mass Spectrometry (GC/MS) version of OA-1, "Method for Determination of Volatile Petroleum Hydrocarbons (gasoline)," revision 7/27/93, University Hygienic Laboratory, Iowa City, IA; **or**
- US Environmental Protection Agency Method 8260B, SW-846, "Test Methods for Evaluating Solid Waste," Third Edition.

Laboratories performing the analyses are required to run standards for MTBE on a routine basis, and standards for other possible compounds like ethyl-tertiary butyl ether (ETBE), tertiary-amyl methyl ether (TAME), diisopropyl ether (DIPE), and tertiary-butyl alcohol (TBA) to be certain of their identification should they be detected. When these chemicals are detected, their presence will be noted in a comment on the lab data sheet - they will not be quantified. Laboratories must be able to achieve a minimum detection level of 15 ug/kg for MTBE in soil, and 15 ug/L for MTBE in water.

Reporting: MTBE monitoring results must be reported to the department on a Microsoft Excel 5.0 Spreadsheet using the format and heading order as presented in the attached example document called "MTBE Sampling

Results” (no exceptions). The MTBE spreadsheet form may be downloaded from the UST web page: <http://www.state.ia.us/epd/ust/lqust.htm>.

The “Monitoring Event” column should be completed with the stage of the RBCA process in which the samples were collected (e.g., Tier 1, Tier 2, SMR, pre-RBCA SMR, CADR Remediation sampling). Sample locations should be clearly identified. If the sample location is not a monitoring well or borehole, the Sample ID should be descriptive enough to tell the origin of the sample (e.g., Municipal Well #1, influent to carbon treatment system, etc.) Sampling dates must be entered in the mm/dd/yyyy format. Provide ground surface and sample depth elevations in feet above sea level (ASL) measured to the nearest 0.1 foot and static water level in feet ASL measured to the nearest 0.01 foot. MTBE results from treatment system samples are to be tabulated in the MTBE-Groundwater column (influent, effluent). Additionally, if ethyl-tertiary butyl ether (ETBE), tertiary-amyl methyl ether (TAME), diisopropyl ether (DIPE), or tertiary-butyl alcohol (TBA) is identified in the sample, this should be reported in the “Comments” column. Concentrations must be reported in units of mg/kg for soil samples and ug/L for water samples. If there are no results for a particular sample, the column must be left blank (e.g., a water sample was collected from MW-13, but no soil sample was collected, leave the column “MTBE Soil” blank). If the concentration reported is less than the quantitation limit, indicate the quantitation value preceded by the less than symbol (<). MTBE data collected prior to July 1, 1999 do not need to be submitted.

A diskette containing the spreadsheet file along with a hardcopy of the MTBE Excel spreadsheet must accompany any LUST report submitted to the department (Tier 1, SMR, pre-RBCA SMR, CADR, etc.) with the exception of monthly free product recovery reports. The MTBE Excel file may be copied to the same disk which is submitted with a Tier 1 report, Tier 2 SCR, or version 2.2 SMR (forthcoming). The Excel file name should contain the LUST number for the site (e.g., M8LTA26.XLS). A separate disk must be submitted for each LUST site (i.e., multiple files for multiple LUST sites should not be submitted on one disk, nor should multiple LUST sites be compiled into one spreadsheet file).

Copies of chromatograms and associated quantitation reports for the above testing **do not need to be submitted** to the department, but must be made available upon request. The laboratory data sheets which summarize the sample results (sample and site identification, detection limits, collection / analysis dates, who collected / analyzed the samples, etc.) must be provided when the disk is submitted. Ensure the laboratory data sheets contain the site name, address and LUST number.

### **Update on Water Supply Sampling in Vulnerable Bedrock Regions**

The project to sample water supplies in vulnerable bedrock regions is underway, and some results have been reported by University Hygienic Laboratory. In addition to BTEX and TEH, MTBE analysis is being conducted. Currently, the information is available for review in hardcopy form at the DNR Records Center, Wallace State Office Building, Des Moines. The records are filed under LUST Bedrock by Public Water Supply (an example file name: LUST Bedrock PWS - Albion). A list of public water supplies in bedrock regions which have been sampled will be kept at the Records Center. You will soon be able to access these records on the UST web page (<http://www.state.ia.us/epd/ust/lqust.htm>). The information will be updated as laboratory results are obtained.



## Appendix D. Public Water Supply Wells in the LUST Bedrock Sampling Project

ACKLEY	APLINGTON	BODE
WELL 2	WELL 2	WELL 1
WELL 3	WELL 3	WELL 2
WELL 7		
AKRON	ARLINGTON	BRIGHTON
WELL 4	WELL 3	WELL 2
WELL 5	WELL 4	
WELL 6		
ALBION	ASBURY	BRITT
WELL 1	WELL 1	WELL 1
WELL 2	WELL 2	WELL 2
WELL 3		
ALBURNETT	ATKINS	BUFFALO
WELL 1	WELL 1	WELL 1
WELL 2	WELL 2	WELL 2
ALDEN	ATLANTIC	BURLINGTON
WELL 2	WELL 10	WELL 1
WELL 3	WELL 11	WELL 1
	WELL 12	WELL 2
	WELL 6	WELL 3
	WELL 7	
	WELL 8	CALAMUS
	WELL 9	WELL 1
ALGONA		
WELL 1	AUBURN	CALMAR
WELL 2	WELL 4	WELL 2
WELL 5	WELL 5	WELL 3
WELL 6		
WELL 7	BALDWIN	CASCADE
	WELL 1	WELL 4
AMANA	WELL 2	WELL 5
WELL 3		
WELL 5	BANCROFT	CEDAR FALLS
WELL 6	WELL 2	WELL 10
	WELL 3	WELL 11
ANAMOSA		WELL 3
WELL 1	BAYARD	WELL 6
WELL 2	WELL 1	WELL 7
WELL 4	WELL 2	WELL 8
ANAMOSA-DNR	BENNETT	
WELL 1	WELL 1	
ANDREW	BETTENDORF	
WELL 1	WELL 1	
WELL 2		

## Appendix D. Public Water Supply Wells in the LUST Bedrock Sampling Project

CEDAR RAPIDS	CLEAR LAKE	DECORAH
CEDAR R	WELL 1	WELL 1
WELL E1	WELL 2	WELL 2
WELL E10		WELL 3
WELL E11	CLINTON	WELL 5
WELL E12	WELL 10	WELL 6
WELL E13	WELL 11	WELL 7
WELL E14	WELL 3	
WELL E15	WELL 6	DELHI
WELL E16	WELL 7	WELL 1
WELL E17	WELL 8	WELL 2
WELL E18	WELL 9	
WELL E19		DELMAR
WELL E2	COGGON	WELL 1
WELL E20	WELL 1	
WELL E3	WELL 2	DEWITT
WELL E4		WELL 3
WELL E5	COLESBURG	WELL 5
WELL E6	WELL 2	WELL 6
WELL SEM	WELL 4	
WELL W1		DOW CITY
WELL W11	COLUMBUS JUNCTION	WELL 3
WELL W2	WELL 4	
WELL W3	WELL 5	DOWS
WELL W4		WELL 4
WELL W5	CONRAD	WELL 5
WELL W6	WELL 3	
WELL W7	WELL 4	DUBUQUE
WELL W8		WELL 1
WELL W9	COON RAPIDS	WELL 2
	WELL 1	
CENTRAL CITY	WELL 5	DUNLAP
WELL 2		WELL 1
WELL 3	CORALVILLE	WELL 2
	WELL 1	WELL 3
CHARLES CITY	WELL 10	
WELL 4	WELL 2	DYERSVILLE
WELL 5	WELL 6	WELL 2
WELL 7	WELL 7	WELL 4
	WELL 8	
CHARLOTTE		EAGLE GROVE
WELL 2	CRESCO	WELL 3
WELL 3	WELL 3	WELL 4
		WELL 5
CLARENCE	DAKOTA CITY	
WELL 2	WELL 2	EARLVILLE
WELL 3	WELL 3	WELL 1
WELL 4		WELL 2

## Appendix D. Public Water Supply Wells in the LUST Bedrock Sampling Project

EAST AMANA WELL 2	WELL 2 FAYETTE WELL 2 WELL 3	GRAFTON WELL 1 WELL 2
EDDYVILLE WELL 1	FERTILE WELL 1	GRAND MOUND WELL 1 WELL 2
EDGEWOOD WELL 1 WELL 2 WELL 3	FLOYD WELL 1 WELL 2	GREENE WELL 1 WELL 2
ELDRIDGE WELL 2 WELL 3	FORT ATKINSON WELL 1	GRISWOLD WELL 3 WELL 4 WELL 5
ELKADER WELL 2 WELL 3	FORT DODGE WELL 12 WELL 14 WELL 15 WELL 16 WELL 17 WELL 8 WELL 9	GUTHRIE CENTER WELL 1 WELL 2 WELL 3 WELL 4 WELL 5
ELMA WELL 1	FREEPORT WELL 1	GUTTENBERG WELL 1 WELL 2
ELY WELL 1	GARNAVILLO WELL 1 WELL 2	HANLONTOWN WELL 1
EPWORTH WELL 2 WELL 3 WELL 4	GARNER WELL 1 WELL 2	HAWARDEN WELL 1 WELL 2 WELL 3 WELL 4 WELL 5 WELL 6 WELL 7 WELL 8 WELL 9
EVANSDALE WELL 1 WELL 3 WELL 4 WELL 5	GARRISON WELL 3	
FAIRBANK WELL 3 WELL 4	GILMORE CITY WELL 2 WELL 3	
FARLEY WELL 1 WELL 2 WELL 3	GLIDDEN WELL 5 WELL 6 WELL 7	HAWKEYE WELL 3 WELL 4
FARMERSBURG WELL 1	GOODELL WELL 1 WELL 2	HAZLETON WELL 1 WELL 3

## Appendix D. Public Water Supply Wells in the LUST Bedrock Sampling Project

HIAWATHA	KELLOGG	LEMARS
WELL 4	WELL 1	WELL 6
WELL 5	WELL 2	WELL 7
	WELL 3	
HOPKINTON	KENSETT	LIME SPRINGS
WELL 2	WELL 1	WELL 1
WELL 3	WELL 2	WELL 2
WELL 4		
HUDSON	KEOKUK	LISBON
WELL 5	MISS R	WELL 1
		WELL 2
		WELL 3
HUMBOLDT	KLEMME	LIVERMORE
SPRING 1	WELL 1	WELL 2
WELL 1	WELL 2	WELL 3
		WELL 4
INDEPENDENCE	LA MOTTE	LONG GROVE
WELL 3	WELL 1	WELL 1
WELL 4	WELL 2	
WELL 6		
WELL 7	LA PORTE CITY	
	WELL 2	LOST NATION
IOWA CITY	WELL 3	WELL 1
IOWA R	WELL 4	WELL 2
U OF I WAT		
WELL 1	LAKE CITY	LOW MOOR
	WELL 3	WELL 1
IOWA FALLS	WELL 4	WELL 2
WELL ER1		
WELL ER2	LAKEVIEW KNOLL	MANCHESTER
WELL ER3	WELL 1	WELL 4
WELL PS1		WELL 5
WELL PS2	LAMONT	WELL 6
WELL PS3	WELL 1	WELL 7
	WELL 2	WELL 8
IRETON	LANSING	MANLY
WELL D-1	WELL 1	WELL 2
WELL D-2	WELL 2	WELL 4
WELL S-1		
WELL S-2	LECLAIRE	MAQUOKETA
	WELL 1	WELL 3
JANESVILLE	WELL 2	WELL 4
WELL 3	WELL 4	WELL 5
		WELL 6
JESUP	LEDYARD	MARBLE ROCK
WELL 2	WELL 1	WELL 1
WELL 3	WELL 2	
WELL 4		

## Appendix D. Public Water Supply Wells in the LUST Bedrock Sampling Project

MARION	MIDDLE AMANA	NEW HARTFORD
WELL 1	WELL 8	WELL 1
WELL 2		
WELL 3	MILES	WELL 2
WELL 4	WELL 1	NORA SPRINGS
WELL 5	WELL 2	
		WELL 2
MARQUETTE	MONONA	WELL 3
WELL 2	WELL 2	
WELL 3	WELL 3	NORTH LIBERTY
MARSHALLTOWN	MONTICELLO	WELL 1
WELL 14	WELL 2	WELL 2
WELL 6	WELL 3	
WELL 7	WELL 4	NORTHWOOD
WELL 8		
WELL 9	MONTOUR	
	WELL 1	
MARTELLE	WELL 2	WELL NOR
WELL 1		WELL SOU
WELL 2	MONTROSE	
		OELWEIN
MASON CITY	WELL 1	
WELL 10	WELL 2	WELL 42
WELL 12		WELL 59
WELL 14	MORNING SUN	WELL 80
WELL 16		
WELL 7	WELL 1	OLIN
WELL 8	WELL 2	
WELL 9		WELL 1
WELL A3	MOUNT PLEASANT	WELL 2
	WELL 4	
MCGREGOR		OSAGE
WELL 6	MOUNT VERNON	WELL 2
MECHANICSVILLE	WELL 2	WELL 4
WELL 2	WELL 3	WELL 5
WELL 3	WELL 4	
		OTTUMWA
MEDIAPOLIS	WELL 5	
WELL 1	WELL 6	BLACK L
WELL 3		DES M R
WELL 4	NASHUA	N LAGOON
WELL 5	WELL 2	S LAGOON
WELL 6		
	WELL 3	PARKERSBURG
MERRILL	WELL 4	WELL 1
WELL 4		WELL 2

## Appendix D. Public Water Supply Wells in the LUST Bedrock Sampling Project

PEOSTA	ROCKFORD	STOCKTON
WELL 1	WELL 1	WELL 1
	WELL 2	WELL 2
PERRY	ROLAND	STORY CITY
WELL 12	WELL 1	WELL 1
WELL 13	WELL 2	WELL 2
WELL 14		WELL 3
WELL 18	ROLFE	
WELL 19	WELL 1	STRAWBERRY POINT
WELL 20	WELL 2	WELL 3
WELL 21		WELL 4
WELL 9	ROWAN	
POSTVILLE	WELL 1	TAMA
WELL 3		WELL 3
WELL 4	RUDD	WELL 4
WELL 5	WELL 1	WELL 5
	WELL 2	
POWESHIEK WATER ASSO		THORNTON
WELL 1	SALEM	WELL 1
WELL 2	WELL 3	WELL 2
WELL 3	WELL 4	
WELL 4	SHEFFIELD	TIFFIN
	WELL 1	WELL 1
PRESTON	WELL 2	WELL 2
WELL 1	WELL 4	WELL 3
WELL 2		
PRINCETON	SHELL ROCK	UNION
WELL 1	WELL 1	WELL 1
	WELL 2	WELL 3
PROTIVIN		
WELL 1	SHELLSBURG	VINCENT
WELL 2	WELL 1	WELL 1
		WELL 2
RED OAK	SOLON	VINTON
WELL 1	WELL 2	WELL 3
	WELL 3	WELL 4
RENWICK	SPRINGVILLE	WALCOTT
WELL 1	WELL 1	WELL 2
WELL 2		WELL 3
RIDGEWAY	ST ANSGAR	
WELL 1	WELL 1	
WELL 2	WELL 2	
RIVER HEIGHTS	STACYVILLE	
WELL 1	WELL 1	
WELL 2		
WELL 3		

## Appendix D. Public Water Supply Wells in the LUST Bedrock Sampling Project

### WATERLOO

WELL 10  
WELL 11  
WELL 12  
WELL 13  
WELL 15  
WELL 17  
WELL 18  
WELL 19  
WELL 22  
WELL 7  
WELL 9

### WAUCOMA

WELL 1

### WAUKON

WELL 2  
WELL 3  
WELL 4

### WAVERLY

WELL 5  
WELL 6  
WELL 7

### WAYLAND

WELL 1  
WELL 2

### WEBSTER CITY

WELL 6

### WELLMAN

WELL 1  
WELL 2

### WEST BEND

WELL 1  
WELL 3  
WELL 5

### WEST BURLINGTON

WELL 4

### WEST FIELD

WELL 3

### WEST LIBERTY

WELL 2  
WELL 3  
WELL 4

### WEST UNION

WELL 3  
WELL 4  
WELL 6

### WHEATLAND

WELL 2

### WINFIELD

WELL 1  
WELL 2

### WINTHROP

WELL 1  
WELL 2  
WELL 3

### WOODBINE

WELL 1  
WELL 2  
WELL 3

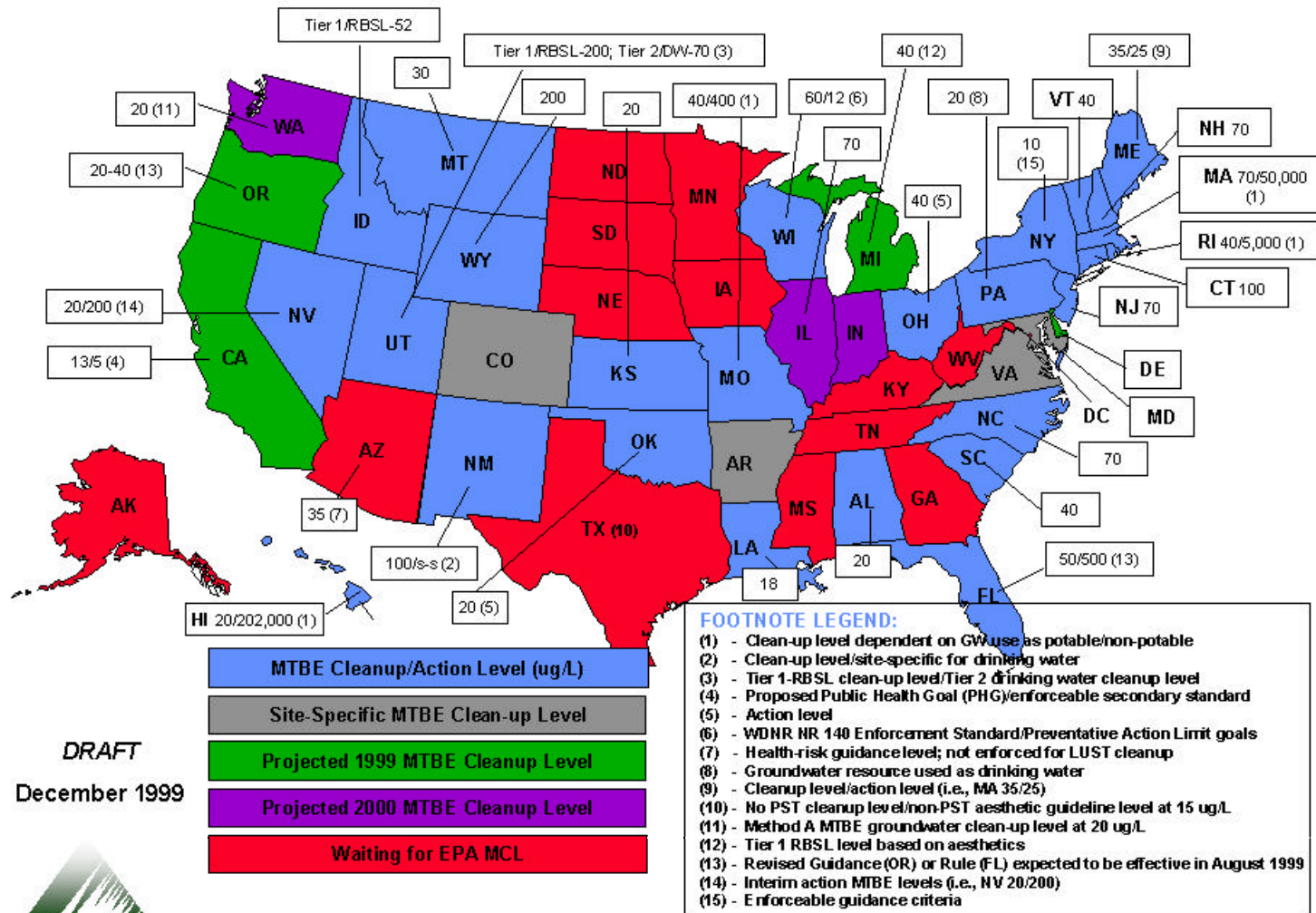
### WORTHINGTON

WELL 1

### WYOMING

WELL 1  
WELL 2

**Figure 1. MTBE Groundwater Clean-up Levels for LUST Sites: Current & Future**



**DRAFT**  
December 1999

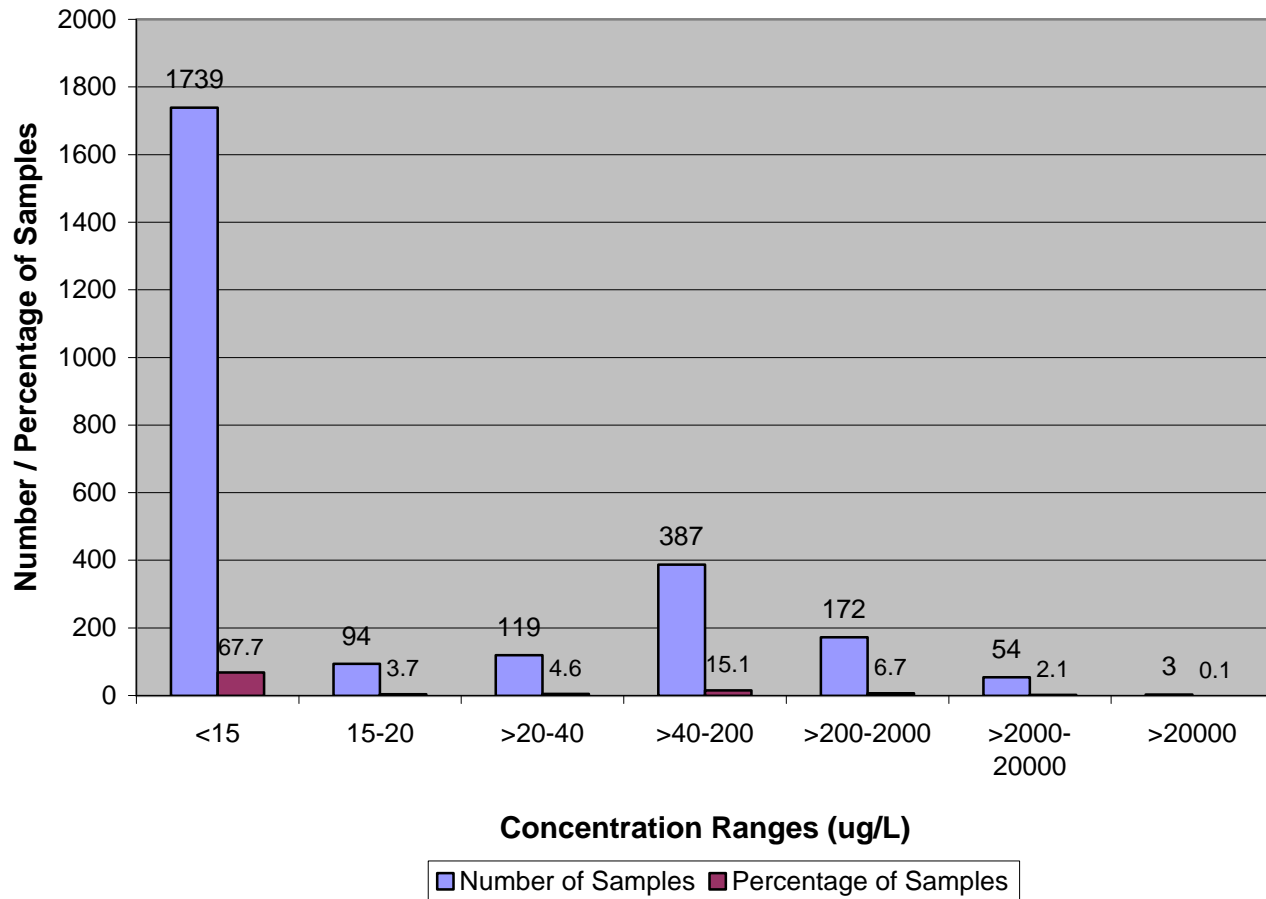


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Figure 2. Distribution of MTBE Concentrations from Groundwater Samples



**Figure 3. PERCENTAGE OF LUST SITES WHICH TESTED GROUNDWATER FOR MTBE:  
BREAKDOWN BY REGION**

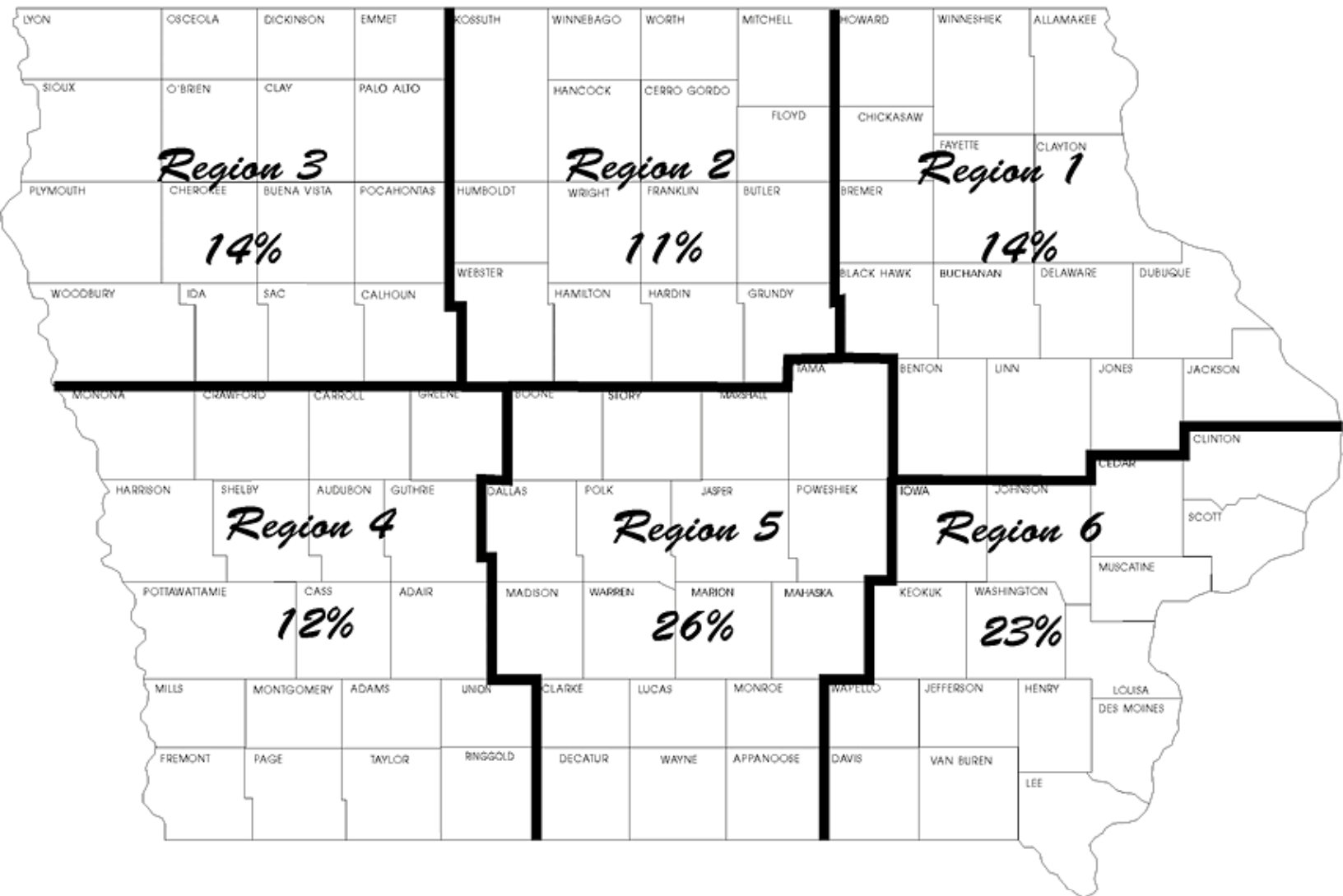


Figure 4. Distribution of MTBE Groundwater Maximums at LUST Sites

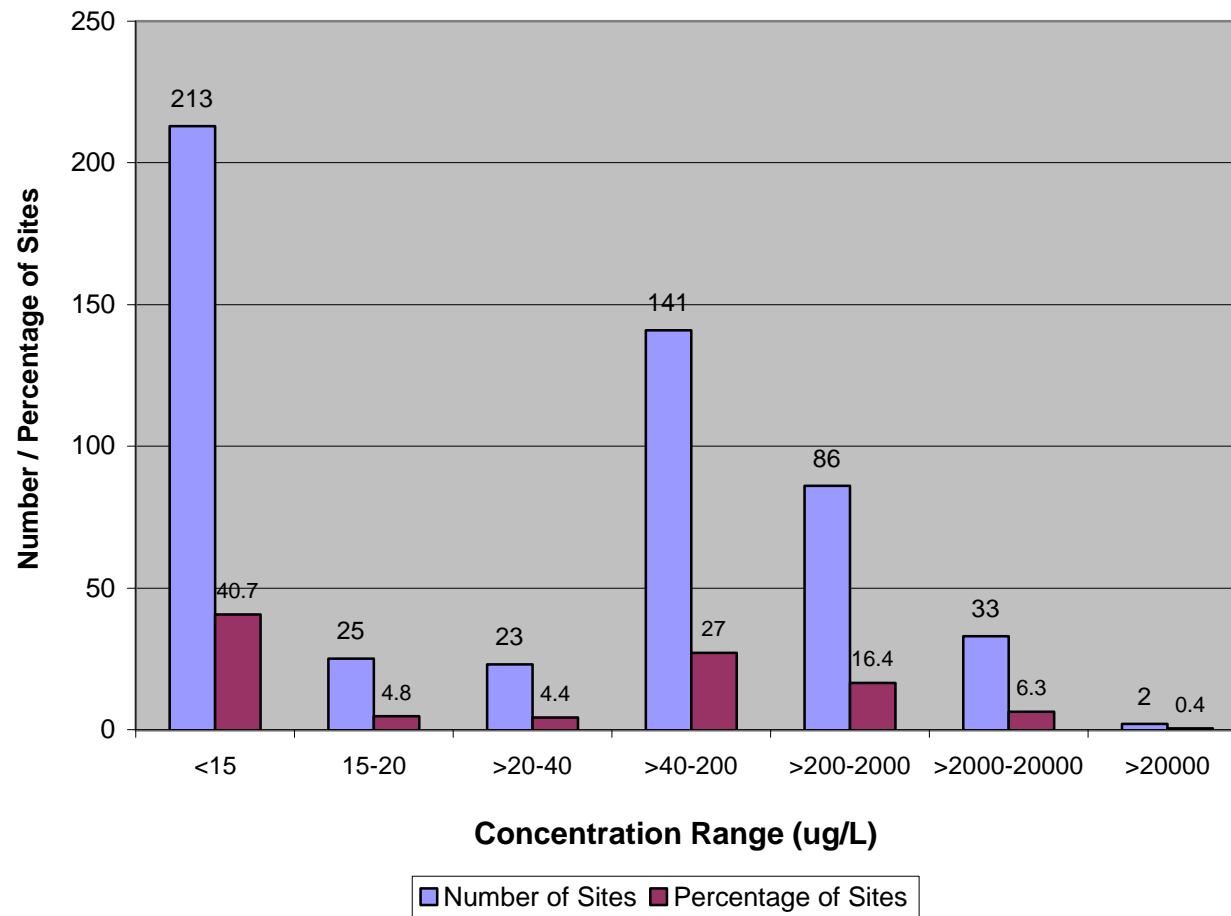
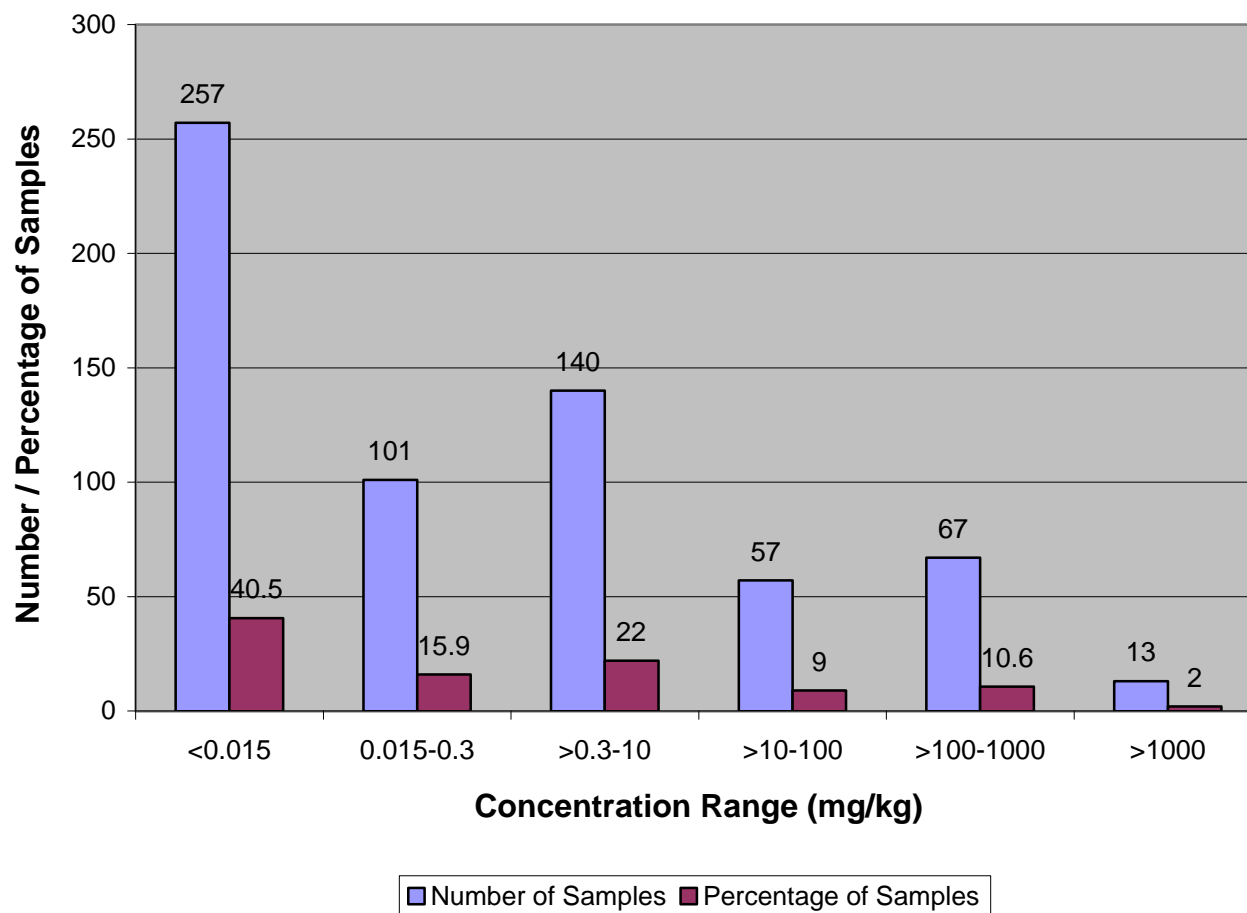


Figure 5. Distribution of MTBE Concentrations from Soil Samples



**Figure 6. PERCENTAGE OF LUST SITES WHICH TESTED SOIL FOR MTBE:  
BREAKDOWN BY REGION**

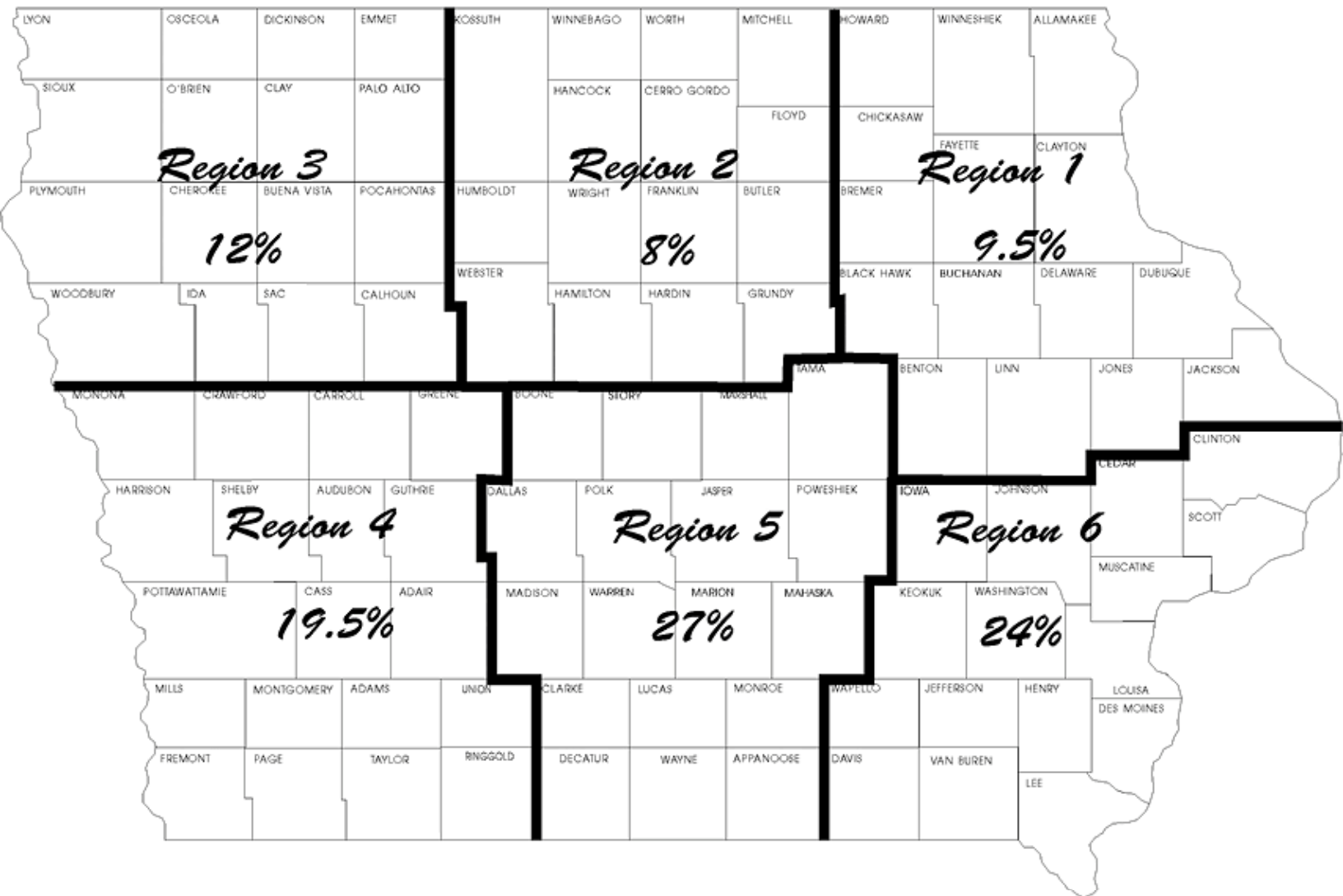
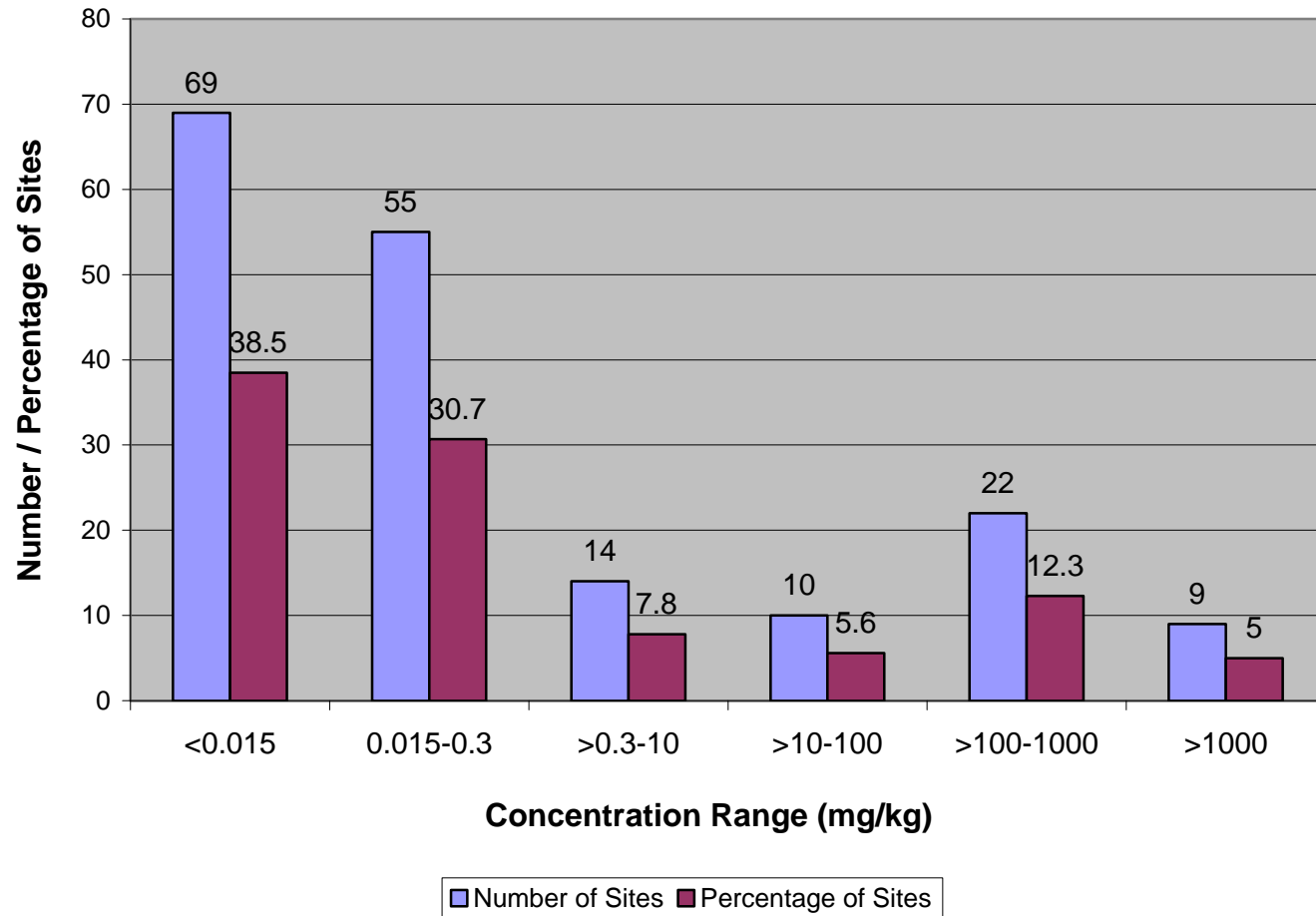


Figure 7. Distribution of MTBE Soil Maximums at LUST Sites



**Table 1. Physical and Chemical Properties of Oxygenates**

Property	MTBE	DIPE	ETBE	TAME	TBA	EtOH	Benzene
Molecular Weight	88.15	102.18	102.18	102.18	74.12	46.07	78.11
Specific Gravity	0.744	0.725	0.744	0.77	0.791	0.794	0.88
Weight % Oxygen	18.2	15.7	15.7	15.7	21.6	34.7	0.0
Water Solubility (mg/L)	~43,000	2,039-9,000	~26,000	~20,000	Infinitely soluble	Infinitely soluble	1,780
Henry's Law Constant	0.018	0.195-0.41	0.1087	0.0519	4.8x10 <sup>-4</sup>	2.522x10 <sup>-4</sup>	0.22
Vapor Pressure @ 25C, mm Hg	245-256	149-151	152	68.3	40-42	49-56.5	95.19
Log Koc	1.035	1.46-1.82	0.95-2.2	1.27-2.2	1.57	1.57	1.9

(modified after Zоргorski et al. 1997)

<b>Table 2. Percentages Samples Analyzed for MTBE by Sample Type</b>		
<b>Sample Type</b>	<b>Number of Samples</b>	<b>Percentage</b>
Groundwater	2569	78.88
Soil	635	19.5
Private Drinking Water Wells	29	0.89
Plastic Water Line / Tap	13	0.40
Municipal Wells	2	0.06
Influent	2	0.06
Effluent	2	0.06
Surface Waters	2	0.06
Non-drinking Water Well	1	0.03
Sewer	1	0.03
Sump	1	0.03
<b>Total</b>	<b>3257</b>	<b>100</b>



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTN25	KG #512	Ackley	SMR	MW11	09/27/99	<1	
7LTN25	KG #512	Ackley	SMR	MW13	09/27/99	25.8	
7LTN25	KG #512	Ackley	SMR	MW9	09/27/99	97.3	
7LTN25	KG #512	Ackley	SMR	MW10	09/27/99	<100	
7LTN25	KG #512	Ackley	SMR	MWA	09/27/99	<10	
7LTA21	Harkins Service	Adair	SMR 99	2/MW-1	07/25/99	436	
7LTA21	Harkins Service	Adair	SMR 99	2/MW-2	07/25/99	<2	
7LTA21	Harkins Service	Adair	SMR 99	2/MW-3	07/25/99	2480	
7LTA21	Harkins Service	Adair	SMR 99	2/MW-4	07/25/99	580	
7LTA21	Harkins Service	Adair	SMR 99	2/MW-5	07/25/99	<20	
7LTA21	Harkins Service	Adair	SMR 99	2/MW-6	07/25/99	808	
7LTA21	Harkins Service	Adair	SMR 99	2/MW-7	07/25/99	<2	
7LTA21	Harkins Service	Adair	SMR 99	2/MW-8	07/25/99	<2	
7LTA21	Harkins Service	Adair	SMR 99	3/MW-17	07/25/99	27.2	
7LTX24	Cahail Inc.	Adair	SMR 99	MW-2	07/25/99	141	
7LTX24	Cahail Inc.	Adair	SMR 99	MW-12	07/25/99	1780	
7LTX24	Cahail Inc.	Adair	SMR 99	MW-13	07/25/99	<2	
7LTX24	Cahail Inc.	Adair	SMR 99	MW-19	07/25/99	24.3	
7LTX24	Cahail Inc.	Adair	SMR 99	MW-A	07/25/99	292	
7LTX24	Cahail Inc.	Adair	SMR 99	MW-1	07/25/99	<2	
8LTJ78	Tires & Service	Adair	SMR	MW-18	7/25/99	46.8	NA
8LTJ78	Tires & Service	Adair	SMR	MW-22	7/25/99	550	NA
8LTJ78	Tires & Service	Adair	SMR	MW-23	7/25/99	191	NA
8LTM39	Meisner	Adel	Tier 1	91191-28	10/11/99	<2	
8LTI64	Former SE IA Ag Center	Ainsworth	Tier 2	MW-25	7/22/99	<200	
8LTI64	Former SE IA Ag Center	Ainsworth	Tier 2	MW-2R	8/21/99	63.9	
9LIC63	Steward & Sons	Ainsworth	SMR	MW-101	07/13/99	<100	
9LIC63	Steward & Sons	Ainsworth	SMR	MW-102	07/13/99	<100	
9LIC63	Steward & Sons	Ainsworth	SMR	MW-103	06/30/99	<1.0	
9LIC63	Steward & Sons	Ainsworth	SMR	MW-104	06/30/99	<1.0	
7LTK12	Brown Oil	Albert City	SMR	MW-21	08/23/99	<15	
7LTK12	Brown Oil	Albert City	SMR	MW-23	08/23/99	<15	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTK12	Brown Oil	Albert City	SMR	MW-25	08/23/99	178	
7LTA74	Coastal Mart	Albia	SMR-1999	MW-1	09/15/99	<200	
7LTA74	Coastal Mart	Albia	SMR-1999	MW-5	09/15/99	21.6	ETBE,TAME Detected
7LTA74	Coastal Mart	Albia	SMR-1999	MW-6	09/15/99	2.2	TAME Detected
7LTA74	Coastal Mart	Albia	SMR-1999	MW-7	09/15/99	2460	
7LTA74	Coastal Mart	Albia	SMR-1999	MW-8	09/15/99	8.4	
7LTA74	Coastal Mart	Albia	SMR-1999	MW-13	09/15/99	<2	
7LTA74	Coastal Mart	Albia	SMR-1999	MW-15	09/15/99	<2	
7LTA74	Coastal Mart	Albia	SMR-1999	MW-12	09/15/99	<2	
7LTX90	Amoco 5758	Albia	IA	SMR-1999	MW-2	<50	
7LTX90	Amoco 5758	Albia	IA	SMR-1999	MW-5	<250	
7LTX90	Amoco 5758	Albia	IA	SMR-1999	MW-8	<10	
9LTA73	Albia Congregation of Jehc	Albia	SMR	MW-3	08/25/99	<1	
9LTA73	Albia Congregation of Jehc	Albia	SMR	MW-2	08/25/99	<1	
9LTA73	Albia Congregation of Jehc	Albia	SMR	MW-9	08/25/99	<1	
8LTD41	Masters Auto	Alburnett	Tier 2	MW12	09/08/99	200	
7LTD12	Casey's	Algona	SMR	MW-2	07/27/99	40.9	
7LTD12	Casey's	Algona	SMR	MW-6	07/27/99	37.6	
8LTE46	CASEY'S	ALTA	SMR	1MW	07/26/99	<40	TAME 109 UG/L
8LTE46	CASEY'S	ALTA	SMR	9MW	07/26/99	8.1	TAME 4 UG/L
8LTE46	CASEY'S	ALTA	SMR	17MW	07/26/99	<10	TAME 117 UG/L
9LTD67	National Auto/Truckstops	Altoona	99 SMR	OW-3	8/10/99	<2	
9LTD67	National Auto/Truckstops	Altoona	99 SMR	MW-1	8/10/99	<2	
9LTD67	National Auto/Truckstops	Altoona	99 SMR	KW-2	8/10/99	52.1	
9LTD67	National Auto/Truckstops	Altoona	99 SMR	MW-6	8/10/99	15.8	
9LTD67	National Auto/Truckstops	Altoona	99 SMR	MW-5	10/19/99	99.7	
7LTB14	Story Co. Secondary Road	Ames	Tier 1	MW-A	09/01/99	<2	
7LTB14	Story Co. Secondary Road	Ames	Tier 1	MW-B	09/01/99	<2	
7LTB14	Story Co. Secondary Road	Ames	Tier 1	MW-C	09/01/99	<2	
7LTB14	Story Co. Secondary Road	Ames	Tier 1	MW-D	09/01/99	<2	
7LTC64	Former EZ Mart	Ames	99 SMR	EMW-2	09/02/99	2090	
7LTC64	Former EZ Mart	Ames	99 SMR	EMW-4	09/02/99	2190	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
7LTC64	Former EZ Mart	Ames	99 SMR	MW-4	09/03/99	624	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-6	09/02/99	16.7	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-7	09/02/99	<2	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-8	09/02/99	<4	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-9	09/02/99	<2	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-10	09/02/99	<20	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-12	09/02/99	<2	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-15	09/02/99	<2	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-16	09/02/99	1160	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-103	10/15/99	580	
7LTE29	Dell Oil, Ltd.	Ames	Tier 2	MW 3	07/16/99	<1.0	
7LTE29	Dell Oil, Ltd.	Ames	Tier 2	MW 11	07/16/99	10	
7LTE29	Dell Oil, Ltd.	Ames	Tier 2	MW 13	07/16/99	<1.0	
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	DG-1	09/29/99	9	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	DG-2	09/29/99	<40	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	DG-3A	09/29/99	<2	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	DG-4A	09/29/99	<2	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	DG-9	09/29/99	<4	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	DG-10A	09/29/99	43	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	MW-1A	09/29/99	12.2	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	MW-2	09/29/99	<200	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	MW-3A	09/29/99	<2	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	MW-4A	09/29/99	101	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	MW-5	09/29/99	<2	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	RW-1A	09/29/99	52	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	RW-4A	09/29/99	<200	None
7LTY16	Kerr McGee	Ames	3rd Qtr SMR	RW-5A	09/29/99	91.9	None
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-1	09/03/99	24.4	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-2	09/03/99	<10	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-3	09/03/99	<2	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-4	09/03/99	<20	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-5	09/03/99	<4	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-9	09/03/99	<2	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-10	09/02/99	11.6	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-11	09/03/99	<2	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-12	09/03/99	2.8	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-13	09/03/99	2.1	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-14	09/02/99	<2	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-16	09/02/99	<2	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-17	09/03/99	<2	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-18	09/03/99	<10	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-19	09/03/99	<2	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-20	09/03/99	<2	
8LTL38	Swift Shop (Fina)	Ames	99 SMR	MW-22	09/02/99	400	
8LTX07	Swift Shop #1	Ames	SMR	94586-3 (W)	07/16/99	163	NONE
8LTX07	Swift Shop #1	Ames	SMR	94586-11 (W)	07/16/99	<2	NONE
8LTX07	Swift Shop #1	Ames	SMR	94586-12 (W)	07/16/99	10.1	NONE
8LTX07	Swift Shop #1	Ames	SMR	94586-15 (W)	07/16/99	<2	NONE
9LTE76	Kwik Shop #542	Ames	Site Check	MW1	09/08/99	<2.0	
9LTE76	Kwik Shop #542	Ames	Site Check	MW-2	09/10/99	<2.0	
9LTE76	Kwik Shop #542	Ames	Site Check	MW-3	09/10/99	<2.0	
9LTH29	ISU Design Building	Ames	RBCA Tier 1	MW-1	08/30/99	<2	
9LTH29	ISU Design Building	Ames	RBCA Tier 1	MW-2	08/30/99	<2	
9LTH29	ISU Design Building	Ames	RBCA Tier 1	MW-3	08/30/99	<2	
9LTH30	ISU Black Engineering	Ames	RBCA Tier 1	MW-2	08/18/99	<2	
9LTH30	ISU Black Engineering	Ames	RBCA Tier 1	MW-1	08/18/99	<2	
9LTH30	ISU Black Engineering	Ames	RBCA Tier 1	MW-3	08/18/99	<2	
8LTU00	JDDMW, Bdlg 14	Ankeny	SMR-1999	MW-5	09/23/99	16.8	
8LTU00	JDDMW, Bdlg 14	Ankeny	SMR-1999	MW11	09/23/99	<2	
9LTA12	Bunnels Svc.	Anthon	Tier 1	MW-3	09/20/99	69	
7LTE61	O'Brien Co. Maint. Facility	Archer	Pre-RBCA SMR	MW-1	09/13/99	<15	
7LTE61	O'Brien Co. Maint. Facility	Archer	Pre-RBCA SMR	MW-4	09/13/99	<15	
7LTE61	O'Brien Co. Maint. Facility	Archer	Pre-RBCA SMR	MW-6	09/13/99	<15	
7LTI46	4 Sons Handy Shop	Armstrong	RBCA Tier 2	MW-31	07/07/99	<100	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTI46	4 Sons Handy Shop	Armstrong	RBCA Tier 2	MW-30	07/07/99	<20	
9LTD94	Former Del's	Arnolds Park	SMR	MW-1	08/26/99	<15	
9LTD94	Former Del's	Arnolds Park	SMR	MW-3	08/26/99	<15	
9LTD94	Former Del's	Arnolds Park	SMR	MW-4	08/26/99	<15	
9LTD94	Former Del's	Arnolds Park	SMR	MW-7	08/26/99	<15	
9LTD94	Former Del's	Arnolds Park	SMR	MW-8	08/26/99	<15	
9LTD94	Former Del's	Arnolds Park	SMR	MW-9	08/26/99	<15	
8LTF56	Coastal Mart	Atlantic	SMR-1999	MW-1	09/16/99	<2	
8LTF56	Coastal Mart	Atlantic	SMR-1999	MW-2	09/16/99	<200	
8LTF56	Coastal Mart	Atlantic	SMR-1999	MW-3	09/16/99	<2	
8LTF56	Coastal Mart	Atlantic	SMR-1999	MW-5	09/16/99	<2	
7LTL36	Wayne's Kwik N EZ	Batavia	SMR 99	1MW	07/27/99	<b>11800</b>	
7LTL36	Wayne's Kwik N EZ	Batavia	SMR 99	2MW	07/27/99	<b>30500</b>	
7LTL36	Wayne's Kwik N EZ	Batavia	SMR 99	3MW	07/27/99	185	
7LTL36	Wayne's Kwik N EZ	Batavia	SMR 99	4MW	07/27/99	<b>42500</b>	
7LTL36	Wayne's Kwik N EZ	Batavia	SMR 99	6MW	07/27/99	<b>15900</b>	
7LTL36	Wayne's Kwik N EZ	Batavia	SMR 99	9MW	07/27/99	2.2	
7LTL36	Wayne's Kwik N EZ	Batavia	SMR 99	MW-10	07/27/99	<b>10800</b>	
9LTE48	Former Midwest Repair	Bayard	SMR	MW1	08/04/99	<100	
9LTE48	Former Midwest Repair	Bayard	SMR	MW3	08/04/99	<1.0	
9LTE48	Former Midwest Repair	Bayard	SMR	MW5	08/04/99	<1.0	
9LTE48	Former Midwest Repair	Bayard	SMR	MW6	08/04/99	<1.0	
9LTE48	Former Midwest Repair	Bayard	SMR	MW9	08/04/99	<1.0	
9LTE48	Former Midwest Repair	Bayard	SMR	MW10	08/04/99	<1.0	
9LTE48	Former Midwest Repair	Bayard	SMR	MW14	08/04/99	<1.0	
9LTE48	Former Midwest Repair	Bayard	SMR	MW16	08/04/99	<1.0	
7LTIW88	Larkin's Casey's	Bedford	SMR	3 MW	08/19/99	<20	
7LTIW88	Larkin's Casey's	Bedford	SMR	7 MW	08/19/99	<10	
7LTIW88	Larkin's Casey's	Bedford	SMR	12 MW	08/19/99	<1	
7LTIW88	Larkin's Casey's	Bedford	SMR	20 MW	08/19/99	<1	
7LTIW88	Larkin's Casey's	Bedford	SMR	21 MW	08/19/99	<1	
8lte15	Fast Track #77	Bedford	SMR	mw26	07/07/99	2.1	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8lte15	Fast Track #77	Bedford	SMR	mw35	07/07/99	<1	
8lte15	Fast Track #77	Bedford	SMR	mw14	07/07/99	60.5	
8lte15	Fast Track #77	Bedford	SMR	mw7	07/07/99	1390	
8lte15	Fast Track #77	Bedford	SMR	mw9	07/07/99	77.6	
8lte15	Fast Track #77	Bedford	SMR	mw15	07/07/99	<100	
8lte15	Fast Track #77	Bedford	SMR	mw1	07/07/99	1370	
8lte15	Fast Track #77	Bedford	SMR	mw13	07/07/99	<100	
8lte15	Fast Track #77	Bedford	SMR	mw4	07/07/99	865	
8lte15	Fast Track #77	Bedford	SMR	mw18	07/07/99	407	
8lte15	Fast Track #77	Bedford	SMR	mw17	07/07/99	504	
8lte15	Fast Track #77	Bedford	SMR	mw11	07/07/99	967	
8lte15	Fast Track #77	Bedford	SMR	mw33	09/09/99	<1	
8lte15	Fast Track #77	Bedford	SMR	mw30	09/09/99	223	
8lte15	Fast Track #77	Bedford	SMR	mw28	09/09/99	88.5	
8lte15	Fast Track #77	Bedford	SMR	mw12	09/09/99	77.6	
8lte15	Fast Track #77	Bedford	SMR	mw10	09/09/99	19.8	
8lte15	Fast Track #77	Bedford	SMR	mw16	09/09/99	<100	
8lte15	Fast Track #77	Bedford	SMR	mw19	09/09/99	260	
7LTL78	Zipmart	Belle Plaine	99 SMR	MW-4	08/04/99	<100	
7LTL78	Zipmart	Belle Plaine	99 SMR	MW-5	08/04/99	<2	
7LTL78	Zipmart	Belle Plaine	99 SMR	MW-1	08/04/99	102	
7LTL78	Zipmart	Belle Plaine	99 SMR	MW-9	08/04/99	<2	
7LTQ05	Belle Plaine Oil Co.	Belle Plaine	3rd Q SMR	MW-1	08/04/99	<20	
7LTQ05	Belle Plaine Oil Co.	Belle Plaine	3rd Q SMR	MW-103	08/04/99	<2	
7LTQ05	Belle Plaine Oil Co.	Belle Plaine	3rd Q SMR	MW-106	08/04/99	<100	
7LTY62	Greider Standard	Belle Plaine	3rd Q SMR	MW-5	08/04/99	<100	
7LTY62	Greider Standard	Belle Plaine	3rd Q SMR	MW-102	08/04/99	<2	
7LTY62	Greider Standard	Belle Plaine	3rd Q SMR	MW-107	08/04/99	<20	
7LTY62	Greider Standard	Belle Plaine	3rd Q SMR	MW-108	08/04/99	8.2	
7LTY62	Greider Standard	Belle Plaine	3rd Q SMR	MW118	08/04/99	<20	
8ltr78	KG #786	Belmond	SMR	MW1	07/14/99	373	
8ltr78	KG #786	Belmond	SMR	MW9	07/14/99	4.2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTS22	Gary's Gas	Bennett	99 SMR	TMW-3	08/03/99	<2	
7LTS22	Gary's Gas	Bennett	99 SMR	MW-3	08/03/99	<2	
7LTS22	Gary's Gas	Bennett	99 SMR	MW-5	08/03/99	<2	
7LTB28	Boone Co. Shop	Berkley	Tier 2	EMW2	07/08/99	47.2	
7LTB28	Boone Co. Shop	Berkley	Tier 2	MW6	07/08/99	<2	
7LTB28	Boone Co. Shop	Berkley	Tier 2	MW9	07/08/99	<2	
7LTB28	Boone Co. Shop	Berkley	Tier 2	MW16	07/08/99	2.8	
7LTB28	Boone Co. Shop	Berkley	Tier 2	MW18	07/08/99	<2	
7LTB28	Boone Co. Shop	Berkley	Tier 2	MW20	08/17/99	<2	
8LTI69	McDonnell Feeds	Bernard	SMR	MW10	08/31/99	<2.0	
8LTI69	McDonnell Feeds	Bernard	SMR	MW3	08/31/99	237	
8LTI69	McDonnell Feeds	Bernard	SMR	MW8	08/31/99	14.1	
8LTI69	McDonnell Feeds	Bernard	SMR	MW9	08/31/99	<5.0	
8LTI69	McDonnell Feeds	Bernard	SMR	MW11	08/31/99	<1.0	
7LTA35	Bettendorf Bus Barn	Bettendorf	SMR 1999	MW-1	09/20/99	<1.0	
7LTA35	Bettendorf Bus Barn	Bettendorf	SMR 1999	MW-5	09/20/99	<1.0	
7LTA35	Bettendorf Bus Barn	Bettendorf	SMR 1999	MW-6	09/20/99	<1.0	
7LTV53	Value Mart	Bettendorf	SMR	MW-4	07/07/99	<100	
7LTV53	Value Mart	Bettendorf	SMR	MW-5	07/07/99	<100	
7LTV53	Value Mart	Bettendorf	SMR	MW-6	07/07/99	73.3	
7LTV53	Value Mart	Bettendorf	SMR	MW-12	07/07/99	5.4	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-9	07/27/99	1.2	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-12	07/27/99	<1.0	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-13	07/27/99	<10	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-9	07/27/99	1.2	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-12	07/27/99	<1.0	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-13	07/27/99	<10	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-9	07/27/99	1.2	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-12	07/27/99	<1.0	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-13	07/27/99	<10	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-9	07/27/99	1.2	
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-12	07/27/99	<1.0	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTA38	H&H Car Care Center	Bettendorf	SMR	MW-13	07/27/99	<10	
8LTG62	Coastal Mart	Bettendorf	SMR-1999	MW-4	09/24/99	22	
8LTG62	Coastal Mart	Bettendorf	SMR-1999	MW-12	09/24/99	<10	
8LTG62	Coastal Mart	Bettendorf	SMR-1999	MW-14	09/24/99	26.6	
8LTG62	Coastal Mart	Bettendorf	SMR-1999	MW-17	09/24/99	<2	
8LTG62	Coastal Mart	Bettendorf	SMR-1999	MW-19	09/24/99	<2	
8LTG62	Coastal Mart	Bettendorf	SMR-1999	MW-20	09/24/99	<2	
7LTR93	Kum & Go #56	Bevington	SMR	MW18	10/06/99	<1.0	
7LTR93	Kum & Go #56	Bevington	SMR	MW20	10/06/99	<1.0	
7LTR93	Kum & Go #56	Bevington	SMR	MW8	10/06/99	<1.0	
7LTR93	Kum & Go #56	Bevington	SMR	EMW2B	10/06/99	890	
7LTR93	Kum & Go #56	Bevington	SMR	MW5	10/06/99	6890	
7LTR93	Kum & Go #56	Bevington	SMR	MW9	10/06/99	<1.0	
7LTR93	Kum & Go #56	Bevington	SMR	MW7	10/06/99	<1.0	
7LTR93	Kum & Go #56	Bevington	SMR	MW2	10/06/99	165	
7LTR93	Kum & Go #56	Bevington	SMR	EMW1B	10/06/99	683	
7LTR93	Kum & Go #56	Bevington	SMR	MW1	10/06/99	3640	
7LTR93	Kum & Go #56	Bevington	SMR	MW11	10/06/99	<1.0	
7LTR93	Kum & Go #56	Bevington	SMR	MW14	10/06/99	<1.0	
7LTR93	Kum & Go #56	Bevington	SMR	MW19	10/06/99	<100	
7LTR93	Kum & Go #56	Bevington	SMR	MW3	10/06/99	22.4	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	RW-1	09/03/99	<50	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	AMW-1	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	AMW-2	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	AMW-3	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	AMW-4	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	AMW-5	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-2	09/03/99	<100	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-3	09/03/99	2180	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-5	09/03/99	<10	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-6	09/03/99	<10	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-7	09/03/99	<5	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-8	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-10	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-13	09/03/99	9.4	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-15	09/03/99	<100	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-16	09/03/99	<5	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-17	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-19	09/03/99	<500	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-20	09/03/99	<100	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-22	09/03/99	<200	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-23	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-24	09/03/99	<1	
8LTP19	Bussanmass Apco	Bevington	3rd Qtr SMR	MW-25	09/03/99	<1	
7LTI25	NE Hamilton School	Blairsburg	SMR 99	MW-2	07/13/99	<2	
7LTI25	NE Hamilton School	Blairsburg	SMR 99	MW-4	07/13/99	<2	
7LTI25	NE Hamilton School	Blairsburg	SMR 99	MW-5A	07/13/99	<2	
7LTI25	NE Hamilton School	Blairsburg	SMR 99	MW-6	07/13/99	<40	
7LTI25	NE Hamilton School	Blairsburg	SMR 99	MW-7	07/13/99	17.4	
7LTI25	NE Hamilton School	Blairsburg	SMR 99	MW-8	07/13/99	41.1	
8LTH52	Coastal Mart	Bloomfield	SMR-1999	MW-2	08/18/99	49.5	ETBE detected
8LTH52	Coastal Mart	Bloomfield	SMR-1999	MW-4	08/18/99	39	
8LTH52	Coastal Mart	Bloomfield	SMR-1999	MW-5	08/18/99	602	
8LTH52	Coastal Mart	Bloomfield	SMR-1999	MW-10	08/18/99	<2.0	
7LTG18	Boone County Care Facility	Boone	Tier 2	91240-4 (W)	07/08/99	<2	none
7LTG18	Boone County Care Facility	Boone	Tier 2	91240-6 (W)	07/08/99	<2	none
7LTG18	Boone County Care Facility	Boone	Tier 2	91240-7 (W)	07/08/99	<2	none
7LTG18	Boone County Care Facility	Boone	Tier 2	91240-10 (W)	07/08/99	<2	none
7LTG18	Boone County Care Facility	Boone	Tier 2	91240-8 (W)	08/16/99	<2	none
8LTE79	Coastal Mart	Boone	SMR-1999	MW-1	08/17/99	<10	
8LTE79	Coastal Mart	Boone	SMR-1999	MW-4	08/17/99	<2	
8LTE79	Coastal Mart	Boone	SMR-1999	MW-5	08/17/99	2.2	
8LTE79	Coastal Mart	Boone	SMR-1999	MW-6	08/17/99	55.5	
8LTE79	Coastal Mart	Boone	SMR-1999	MW-13	08/17/99	186	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTE79	Coastal Mart	Boone	SMR-1999	MW-15	08/17/99	6.8	
8LTE79	Coastal Mart	Boone	SMR-1999	MW-19	08/17/99	50	
9LTE29	QuikTrip #521	Boone	RBCA Tier 1	MW-4	09/10/99	<2	
9LTE29	QuikTrip #521	Boone	RBCA Tier 1	MW-3	09/10/99	117	
9LTE29	QuikTrip #521	Boone	RBCA Tier 1	MW-5	09/10/99	<20	
9LTE29	QuikTrip #521	Boone	RBCA Tier 1	MW-1	09/10/99	52.9	
7LTA29	Don Jones Property	Bouton	SMR	92299-16 (W	07/13/99	<2	NONE
7LTA29	Don Jones Property	Bouton	SMR	92299-18 (W	07/13/99	9.3	NONE
7LTA29	Don Jones Property	Bouton	SMR	92299-19 (W	07/13/99	<10	NONE
8LTR88	Kum & Go #766	Boyden	T1	MW3	10/01/99	<1.0	
8LTR88	Kum & Go #766	Boyden	T1	MW4	10/01/99	<50	
8LTR88	Kum & Go #766	Boyden	T1	MW5	10/01/99	<2.0	
8LTR88	Kum & Go #766	Boyden	T1	MW6	10/01/99	1.3	
8LTR88	Kum & Go #766	Boyden	T1	MW7	10/01/99	2.4	
8LTR88	Kum & Go #766	Boyden	T1	MW9	10/01/99	<1.0	
8LTR88	Kum & Go #766	Boyden	T1	MW12	10/01/99	<1.0	
8LTD07	Don's Tire & Service	Brighton	Tier 1	14 MW	07/07/99	<1.0	
7LTG38	Home Oil 18	Burlington	Tier 2	EMW-3	08/19/99	497	
7LTG38	Home Oil 18	Burlington	Tier 2	MW-14	08/19/99	365	
7LTG38	Home Oil 18	Burlington	Tier 2	MW-20	08/12/99	<15	
7LTL55	Kum & Go #711	Burlington	T2	MW12A	07/29/99	1700	
7LTU54	Kwik Shop#570	Burlington	Pre-RBCA-SMR	EMW1	07/29/99	3400	
7LTU54	Kwik Shop#570	Burlington	Pre-RBCA-SMR	MW5	07/29/99	<15	
7LTU54	Kwik Shop#570	Burlington	Pre-RBCA-SMR	MW9	07/29/99	54	
7LTU54	Kwik Shop#570	Burlington	Pre-RBCA-SMR	MW10	07/29/99	<15	
7LTU54	Kwik Shop#570	Burlington	Pre-RBCA-SMR	MW11	07/29/99	48	
7LTU54	Kwik Shop#570	Burlington	Pre-RBCA-SMR	MW12	07/29/99	19	
8LTE53	Wareco #664	Burlington	SMR	MW-2	07/15/99	191	
8LTE53	Wareco #664	Burlington	SMR	MW-3	07/15/99	13.3	
8LTE53	Wareco #664	Burlington	SMR	MW-7	07/15/99	<1.0	
8LTE53	Wareco #664	Burlington	SMR	MW-8	07/15/99	<1.0	
8LTE53	Wareco #664	Burlington	SMR	MW-9	07/15/99	<1.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
8LTE53	Wareco #664	Burlington	SMR	MW-10	07/15/99	<1.0	
8LTE53	Wareco #664	Burlington	SMR	MW-11	07/15/99	9.2	
8LTM71	Remmers Aviation	Burlington	SMR	MW-C	07/21/99	<1	
8LTM71	Remmers Aviation	Burlington	SMR	MW-O	07/21/99	<1	
8LTM71	Remmers Aviation	Burlington	SMR	MW-P	07/21/99	<1	
8LTM71	Remmers Aviation	Burlington	SMR	MW-X	07/21/99	<1	
8LTM71	Remmers Aviation	Burlington	SMR	MW-Y	07/21/99	8	
8LTM71	Remmers Aviation	Burlington	SMR	MW-Z	07/21/99	<10	
8LTU77	Otto Matic	Burlington	SMR	MW-1	07/21/99	<20	
8LTU77	Otto Matic	Burlington	SMR	MW-2	07/21/99	1.1	
8LTU77	Otto Matic	Burlington	SMR	MW-3	07/21/99	<1	
8LTZ20	COUNTY CONVENIENCE	BURLINGTON	CONFIRMATION	MW-1	09/01/99	<5	
8LTZ20	COUNTY CONVENIENCE	BURLINGTON	CONFIRMATION	MW-3	09/01/99	<5	
8LTZ20	COUNTY CONVENIENCE	BURLINGTON	CONFIRMATION	MW-7	09/01/99	<5	
7LTF97	Roosevelt Fast Break	Burlington	SMR	EMW-3	07/21/99	<1	
7LTF97	Roosevelt Fast Break	Burlington	SMR	EMW-4	07/21/99	1.1	
7LTF97	Roosevelt Fast Break	Burlington	SMR	WMW-8	07/21/99	<1	
7LTF97	Roosevelt Fast Break	Burlington	SMR	MW-10	07/21/99	<1	
7LTF97	Roosevelt Fast Break	Burlington	SMR	MW-11	07/21/99	1.2	
7LTF97	Roosevelt Fast Break	Burlington	SMR	MW-14	07/21/99	19	
7LTF97	Roosevelt Fast Break	Burlington	SMR	MW-15	07/21/99	<1	
7LTF97	Roosevelt Fast Break	Burlington	SMR	MW-16	07/21/99	<1	
9LTH24	Kwik Star #632	Camanche	Tier 2	MW6	07/21/99	<1.0	
9LTH24	Kwik Star #632	Camanche	Tier 2	MW7	07/21/99	<1.0	
7LTT26	Wright Chevrolet	Carlisle	3rd Q SMR	MW-4	07/30/99	<2	
7LTC15	Winnike & Masching	Carroll	Tier 2	MW30	07/15/99	<2.0	
7LTX35	Carroll Co. Shop	Carroll	SMR	9041-1(W)	10/29/99	19.5	NONE
7LTX35	Carroll Co. Shop	Carroll	SMR	9041-3(W)	10/29/99	<2	NONE
7LTX35	Carroll Co. Shop	Carroll	SMR	9041-21(W)	09/27/99	17.9	NONE
8LTP99	New Hope Village	Carroll	Tier 1	MW-1	08/06/99	39.9	
8LTP99	New Hope Village	Carroll	Tier 1	MW-2	08/06/99	<2	
8LTP99	New Hope Village	Carroll	Tier 1	MW-3	08/06/99	<2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTP99	New Hope Village	Carroll	Tier 1	MW-4	08/06/99	20.5	
8LTP99	New Hope Village	Carroll	Tier 1	MW-5	08/06/99	<2	
9LTF18	Rosebud	Carroll	SMR 99	96727-2(W)	08/18/99	<2	
9LTF18	Rosebud	Carroll	SMR 99	96727-4(W)	08/18/99	<20	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW3	11/03/99	<50	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW2	11/03/99	<1.0	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW16	11/03/99	<100	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW21	11/03/99	<1.0	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW22	11/03/99	2.6	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW4	11/03/99	<20	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW5	11/03/99	190	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW24	11/03/99	21.4	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW15	11/03/99	22.2	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW23	11/03/99	2.3	
7LTS58	QuikTrip #510	Cedar Falls	SMR	MW-1	10/12/99	6200	
7LTS58	QuikTrip #510	Cedar Falls	SMR	MW-3	10/12/99	470	
7LTS58	QuikTrip #510	Cedar Falls	SMR	EMW-6	10/12/99	<2	
7LTS58	QuikTrip #510	Cedar Falls	SMR	MW-8	10/12/99	48.9	
7LTS58	QuikTrip #510	Cedar Falls	SMR	MW-10	10/12/99	1040	
9LTA03	Conoco - Cedar Falls	Cedar Falls	SMR 1999	MW-1	08/18/99	<1.0	
9LTA03	Conoco - Cedar Falls	Cedar Falls	SMR 1999	MW-2	08/18/99	<1.0	
9LTA03	Conoco - Cedar Falls	Cedar Falls	SMR 1999	MW-3	08/18/99	<1.0	
7LTA72	Coastal Mart	Cedar Rapids	SMR-1999	MW-9	08/18/99	<2.0	
7LTA72	Coastal Mart	Cedar Rapids	SMR-1999	MW-7	08/18/99	2170	
7LTA72	Coastal Mart	Cedar Rapids	SMR-1999	MW-15	08/18/99	<2.0	
7LTA72	Coastal Mart	Cedar Rapids	SMR-1999	MW-19	08/18/99	42.5	
7LTA72	Coastal Mart	Cedar Rapids	SMR-1999	MW-17	08/18/99	<2.0	
7LTA72	Coastal Mart	Cedar Rapids	SMR-1999	MW-5	08/18/99	<100	
7LTA72	Coastal Mart	Cedar Rapids	SMR-1999	MW-4	08/18/99	<200	
7LTA72	Coastal Mart	Cedar Rapids	SMR-1999	MW-14	08/18/99	<2.0	DIPE detected
7LTC50	Cedar Rapids Airport	Cedar Rapids	Tier 1	MW10	08/05/99	<15	
7LTI99	QuikTrip 507	Cedar Rapids	SMR	MW-5	10/11/99	<10	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTI99	QuikTrip 507	Cedar Rapids	SMR	MW-1	10/11/99	<2	
7LTL51	Kum & Go #759	Cedar Rapids	Tier 2	MW-9	10/20/99	<15	None
7LTR88	Former Northwood Knolls	Cedar Rapids	SMR	MW-5	09/22/99	<1.0	
7LTR88	Former Northwood Knolls	Cedar Rapids	SMR	MW-8	09/22/99	<5.0	
7LTR88	Former Northwood Knolls	Cedar Rapids	SMR	MW-9	09/22/99	323	
7LTT29	John's Quik Stop	Cedar Rapids	SMR	MW10	09/08/99	<5.0	
7LTT29	John's Quik Stop	Cedar Rapids	SMR	MW19	09/08/99	26.4	
7LTU03	Wareco #444	Cedar Rapids	SMR	MW-18	08/11/99	<1	
7LTU59	8th Ave. Handimart	Cedar Rapids	SMR	MW1	09/30/99	41.2	
7LTU59	8th Ave. Handimart	Cedar Rapids	SMR	MW8	09/30/99	2.9	
7LTU59	8th Ave. Handimart	Cedar Rapids	SMR	MW13	09/30/99	26.4	
7LTU59	8th Ave. Handimart	Cedar Rapids	SMR	MW14	09/30/99	<10	
8LTG13	UDS 9029	Cedar Rapids	SMR	MW-2	10/07/99	<2	
8LTG13	UDS 9029	Cedar Rapids	SMR	MW-4	10/07/99	60.8	
8LTG13	UDS 9029	Cedar Rapids	SMR	MW-6	10/07/99	3130	
8LTG13	UDS 9029	Cedar Rapids	SMR	MW-8	10/07/99	<2	
8LTG13	UDS 9029	Cedar Rapids	SMR	MW-14	10/07/99	<2	
8LTG13	UDS 9029	Cedar Rapids	SMR	MW-15	10/07/99	<2	
8LTG13	UDS 9029	Cedar Rapids	SMR	MW-16	10/07/99	<40	
8LTH48	Coastal Mart	Cedar Rapids	SMR-1999	MW-5	08/17/99	103	
8LTH48	Coastal Mart	Cedar Rapids	SMR-1999	MW-8	08/17/99	121	TBA detected
8LTH48	Coastal Mart	Cedar Rapids	SMR-1999	MW-11	08/17/99	<2.0	
8LTH48	Coastal Mart	Cedar Rapids	SMR-1999	MW-12	08/17/99	<2.0	
8LTH48	Coastal Mart	Cedar Rapids	SMR-1999	MW-15	08/17/99	59	ETBE and TBA detected
8LTH55	Coastal Mart	Cedar Rapids	SMR-1999	MW-6	08/17/99	98.2	ETBE and TAME detected
8LTH55	Coastal Mart	Cedar Rapids	SMR-1999	MW-7	08/17/99	63.8	
8LTH55	Coastal Mart	Cedar Rapids	SMR-1999	MW-9	08/17/99	32.9	ETBE and TAME detected
8LTH55	Coastal Mart	Cedar Rapids	SMR-1999	MW-12	08/17/99	<2.	
8LTH83	Westside	Cedar Rapids	Tier1	MW2	10/06/99	<15	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTI66	Former Allen Motors	Cedar Rapids	SMR	MW1	08/30/99	<1.0	
8LTI66	Former Allen Motors	Cedar Rapids	SMR	MW3	08/30/99	<1.0	
8LTI66	Former Allen Motors	Cedar Rapids	SMR	MW4	08/30/99	<1.0	
8LTI66	Former Allen Motors	Cedar Rapids	SMR	MW7	08/30/99	<1.0	
8LTI66	Former Allen Motors	Cedar Rapids	SMR	MW10	08/30/99	<1.0	
8LTN28	E & F Cement	Cedar Rapids	SMR	MW10	09/01/99	<50	
8LTN28	E & F Cement	Cedar Rapids	SMR	MW11	09/01/99	<1.0	
8LTN28	E & F Cement	Cedar Rapids	SMR	MW13	09/01/99	<1.0	
9LTD21	CRANDIC	Cedar Rapids	SMR-1999	MW-12	07/21/99	<2	None
9LTD21	CRANDIC	Cedar Rapids	SMR-1999	MW-15	07/21/99	<200	None
9LTD21	CRANDIC	Cedar Rapids	SMR-1999	MW-16	07/21/99	250	None
9LTD21	CRANDIC	Cedar Rapids	SMR-1999	MW-17	07/21/99	<2	None
9LTD21	CRANDIC	Cedar Rapids	SMR-1999	MW-8	08/23/99	677	ETBE reported
9LTF34	3rd, 4th, & 5th Lots	Cedar Rapids	SMR	MW9	09/30/99	<100	
7LTY44	The Corner Store	Center Point	SMR	MW-7	08/27/99	<1	
7LTY44	The Corner Store	Center Point	SMR	MW-9	08/27/99	<1	
7LTY44	The Corner Store	Center Point	SMR	MW-10	08/27/99	532	
7LTE07	midwest heritage	chariton	SMR	MW 1	07/08/99	<5	
7LTE07	midwest heritage	chariton	SMR	MW 4	07/08/99	<10	
7LTE07	midwest heritage	chariton	SMR	MW 9	07/08/99	<1	
7LTE07	midwest heritage	chariton	SMR	MW 213	07/08/99	<1	
7LTI97	Davis Oil	Charles City	T1	B1	07/09/99	<1	
7LTI97	Davis Oil	Charles City	T1	MW14	07/09/99	<1	
7LTI97	Davis Oil	Charles City	T1	MW215	07/09/99	<1	
7LTI97	Davis Oil	Charles City	T1	MW12	07/09/99	<1	
7LTI97	Davis Oil	Charles City	T1	MW9	07/09/99	<1	
7LTI97	Davis Oil	Charles City	T1	MW8	07/09/99	<1	
7LTI97	Davis Oil	Charles City	T1	MW16	07/27/99	<5	
8LTN51	AgVantage FS/Charles City	Charles City	SMR 1999	MW-4	08/17/99	51.3	
8LTN51	AgVantage FS/Charles City	Charles City	SMR 1999	MW-10	08/17/99	<5.0	
8LTN51	AgVantage FS/Charles City	Charles City	SMR 1999	MW-11	08/17/99	55.9	
8LTN51	AgVantage FS/Charles City	Charles City	SMR 1999	MW-12	08/17/99	<5.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTN51	AgVantage FS/Charles City	Charles City	SMR 1999	MW-17	08/17/99	<1.0	
8LTN51	AgVantage FS/Charles City	Charles City	SMR 1999	MW-18	08/17/99	<1.0	
8LTN51	AgVantage FS/Charles City	Charles City	SMR 1999	MW-23	08/17/99	1.6	
9LTA50	Davico Car Wash	Charles City	T1	MW1	07/13/99	16.9	
9LTA50	Davico Car Wash	Charles City	T1	MW2	07/13/99	1.7	
9LTA50	Davico Car Wash	Charles City	T1	MW3	07/13/99	62.8	
9LTA50	Davico Car Wash	Charles City	T1	MW4	07/13/99	<1	
9LTA50	Davico Car Wash	Charles City	T1	MW5	07/13/99	5.3	
9LTA50	Davico Car Wash	Charles City	T1	MW6	07/27/99	<1	
9LTA50	Davico Car Wash	Charles City	T1	MW7	07/27/99	<1	
7LTK62	KG #645	Cherokee	Tier 1	MW10	07/27/99	<1.0	
7LTK62	KG #645	Cherokee	Tier 1	MW11	07/27/99	<1.0	
7LTQ09	Casey's General Store	CHEROKEE	TIER I	MW1	07/21/99	468	ETBE, TAME,DIPE, TBA
7LTQ09	Casey's General Store	CHEROKEE	TIER I	MW2	07/21/99	<2	ETBE, TAME,DIPE, TBA
7LTQ09	Casey's General Store	CHEROKEE	TIER I	MW4	07/21/99	<2	ETBE, TAME,DIPE, TBA
7LTQ09	Casey's General Store	CHEROKEE	TIER I	MW5	07/21/99	<2	ETBE, TAME,DIPE, TBA
7LTQ09	Casey's General Store	CHEROKEE	TIER I	MW7	07/21/99	32.9	ETBE, TAME,DIPE, TBA
7LTY29	IDOT Cherokee	Cherokee	Tier 1	MW-5	08/23/99	<2	
7LTY29	IDOT Cherokee	Cherokee	Tier 1	MW-5	10/13/99	<2	
7LTY29	IDOT Cherokee	Cherokee	Tier 1	MW-9	10/13/99	<2	
8LTB70	Greene Co. Shop	Churdan	SMR	9098-13 (W)	09/16/99	<2	NONE
8LTB70	Greene Co. Shop	Churdan	SMR	9098-16 (W)	09/16/99	<2	NONE
8LTB70	Greene Co. Shop	Churdan	SMR	9098-17 (W)	09/16/99	<2	NONE
8LTB70	Greene Co. Shop	Churdan	SMR	9098-18 (W)	09/16/99	<100	NONE
8LTR55	Hellstern Property	Clarence	Tier 1	MW-1	08/19/99	5.42	
8LTR55	Hellstern Property	Clarence	Tier 1	MW-2	08/19/99	4.74	
8LTR55	Hellstern Property	Clarence	Tier 1	MW-3	08/19/99	<1	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTO38	Form. Clarinda Apco	Clarinda	SMR	DH-2	09/28/99	<5.0	
7LTO38	Form. Clarinda Apco	Clarinda	SMR	DH-4	09/28/99	<50	
7LTO38	Form. Clarinda Apco	Clarinda	SMR	DH-8	09/28/99	<1.0	
7LTO38	Form. Clarinda Apco	Clarinda	SMR	DH-13	09/28/99	<1	
7LTO38	Form. Clarinda Apco	Clarinda	SMR	DH-15	09/28/99	35.9	
7LTO38	Form. Clarinda Apco	Clarinda	SMR	MW-19	09/28/99	<1	
7LTO38	Form. Clarinda Apco	Clarinda	SMR	MW-22	09/28/99	<50	
7LTO38	Form. Clarinda Apco	Clarinda	SMR	MW-27	09/28/99	<1	
8LTF47	AIRPORT	CLARINDA	TIER 1	TRIP BLANK	07/19/99	<2	
8LTF59	Coastal Mart	Clarinda	SMR-1999	MW-1	09/14/99	<2.0	
8LTF59	Coastal Mart	Clarinda	SMR-1999	MW-3	09/14/99	6.6	
8LTF59	Coastal Mart	Clarinda	SMR-1999	MW-4	09/14/99	13.5	
8LTF59	Coastal Mart	Clarinda	SMR-1999	MW-5	09/14/99	3	
8LTF59	Coastal Mart	Clarinda	SMR-1999	MW-6B	09/14/99	<2.0	
7LTD86	4 Sons Handy Shop	Clarion	SMR	MW-1	10/12/99	8.5	
7LTD86	4 Sons Handy Shop	Clarion	SMR	MW-4	10/12/99	16.7	
8LTA06	Jim's 66	Clarion	3rd Q SMR	MW-1	07/12/99	<10	
8LTA06	Jim's 66	Clarion	3rd Q SMR	MW-3	07/12/99	<2	
8LTA06	Jim's 66	Clarion	3rd Q SMR	MW-17	07/12/99	61.4	
7LTX08	Former American Delivery	Clear Lake	SMR	MW-3	08/26/99	<1.0	
7LTX08	Former American Delivery	Clear Lake	SMR	MW-5	08/26/99	<1.0	
7LTX08	Former American Delivery	Clear Lake	SMR	MW-10	08/26/99	<1.0	
7LTX08	Former American Delivery	Clear Lake	SMR	MW-3	08/26/99	<1.0	
7LTX08	Former American Delivery	Clear Lake	SMR	MW-5	08/26/99	<1.0	
7LTX08	Former American Delivery	Clear Lake	SMR	MW-10	08/26/99	<1.0	
7LTX08	Former American Delivery	Clear Lake	SMR	MW-3	08/26/99	<1.0	
7LTX08	Former American Delivery	Clear Lake	SMR	MW-5	08/26/99	<1.0	
7LTX08	Former American Delivery	Clear Lake	SMR	MW-10	08/26/99	<1.0	
7LTY25	Kum & Go #531	Clear Lake	SMR	MW 2	09/08/99	<200	
7LTY25	Kum & Go #531	Clear Lake	SMR	MW 5	09/08/99	2740	
7LTY25	Kum & Go #531	Clear Lake	SMR	MW 6	09/08/99	205	
8LTC82	Coastal Mart	Clear Lake	SMR-1999	MW-3	07/19/99	<2.0	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTC82	Coastal Mart	Clear Lake	SMR-1999	MW-7	07/19/99	18.3	
8LTC82	Coastal Mart	Clear Lake	SMR-1999	MW-11	07/19/99	<2.0	
8LTC82	Coastal Mart	Clear Lake	SMR-1999	MW-16	07/19/99	<2.0	
8LTF67	Kum & GO #301	Clear Lake	SMR	PMW5	10/28/99	56.7	
8LTF67	Kum & GO #301	Clear Lake	SMR	PMW8	10/28/99	2750	
8LTF67	Kum & GO #301	Clear Lake	SMR	MW11	10/28/99	1740	
8LTF67	Kum & GO #301	Clear Lake	SMR	MW14	10/28/99	46	
8LTF67	Kum & GO #301	Clear Lake	SMR	MW15	10/28/99	150	
8LTF67	Kum & GO #301	Clear Lake	SMR	PMW20	10/28/99	28.1	
8LTF67	Kum & GO #301	Clear Lake	SMR	PMW21	10/28/99	16.3	
8LTF67	Kum & GO #301	Clear Lake	SMR	MW19	10/28/99	<1.0	
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-7	07/08/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-10R	07/08/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-12	07/08/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-17R	07/08/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-18	07/09/99	<50	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-105	07/08/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-106	07/09/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-112	07/08/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-113	07/08/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-115	07/09/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-117	07/09/99	<100	TAME Detected
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-118	07/08/99	<2	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-119	07/08/99	<40	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-121	07/08/99	<10	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-122	07/09/99	<2	None
7LTJ09	Wareco #665	Clinton	SMR	MW-A	07/13/99	<1.0	
7LTJ09	Wareco #665	Clinton	SMR	MW-3	07/13/99	6.9	
7LTJ09	Wareco #665	Clinton	SMR	MW-5	07/13/99	<1.0	
7LTJ09	Wareco #665	Clinton	SMR	MW-7	07/13/99	<1.0	
7LTJ09	Wareco #665	Clinton	SMR	MW-9	07/13/99	1.4	
7LTG29	Union Pacific RR	Clinton	SMR 1999	MW-a-3	09/02/1999	<10	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTG29	Union Pacific RR	Clinton	SMR 1999	MWa-5	09/01/1999	<10	
7LTG29	Union Pacific RR	Clinton	SMR 1999	MWa-9	09/01/1999	<1.0	
7LTG29	Union Pacific RR	Clinton	SMR 1999	MWa-6	09/01/1999	<5.0	
7LTG29	Union Pacific RR	Clinton	SMR 1999	MWa-7	09/01/1999	<5.0	
7LTG29	Union Pacific RR	Clinton	SMR 1999	MWa-11	09/01/1999	<5.0	
7LTG29	Union Pacific RR	Clinton	SMR 1999	MWa-21	09/01/1999	<5.0	
7LTU05	DOWNTOWN SHELL	CLINTON	PRE RBCA	MW-17	08/25/99	<5	
8LTF27	Go-Tane	Clinton	Pre-RBCA-SMR	MWA	08/06/99	<15	
8LTF27	Go-Tane	Clinton	Pre-RBCA-SMR	MWB	08/06/99	<45	
8LTF27	Go-Tane	Clinton	Pre-RBCA-SMR	MW1	08/06/99	<15	
8LTF27	Go-Tane	Clinton	Pre-RBCA-SMR	MW2	08/06/99	<15	
8LTF27	Go-Tane	Clinton	Pre-RBCA-SMR	MW4	08/06/99	<220	
8LTF27	Go-Tane	Clinton	Pre-RBCA-SMR	MW8	08/06/99	<15	
8LTG91	Coastal Mart	Clinton	SMR-1999	MW-3	08/31/99	<100	
8LTG91	Coastal Mart	Clinton	SMR-1999	MW-7	08/31/99	<2.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-13	09/02/1999	<5.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-5	09/02/1999	<10	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-6	09/02/1999	<5.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-7	09/02/1999	<2.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-10	09/02/1999	<1.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-18	09/02/1999	<5.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-16	09/02/1999	<1.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-14	09/02/1999	<1.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-12	09/02/1999	<1.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-19	09/02/1999	<5.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-20	09/02/1999	<5.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-21	09/02/1999	<1.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-22	09/02/1999	<1.0	
8LTZ19	Union Pacific RR	Clinton	SMR 1999	MWb-23	09/02/1999	<1.0	
9LTD35	Union Pacific RR	Clinton	SMR 1999	MWc-4	09/01/1999	2.8	
9LTD35	Union Pacific RR	Clinton	SMR 1999	MWc-5	09/01/1999	<5.0	
9LTD35	Union Pacific RR	Clinton	SMR 1999	MWc-6	09/01/1999	<5.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
9LTD37	Union Pacific RR	Clinton	SMR 1999	MWd-2	09/01/1999	<2.0	
9LTD37	Union Pacific RR	Clinton	SMR 1999	MWd-3	09/01/1999	<5.0	
9LTD37	Union Pacific RR	Clinton	SMR 1999	MWd-4	09/01/1999	<5.0	
9LTD37	Union Pacific RR	Clinton	SMR 1999	MWd-7	09/01/1999	<2.0	
7LTD92	Phillips	Clive	SMR-1999	MW-1	09/22/99	<2.0	
7LTD92	Phillips	Clive	SMR-1999	MW-2	09/22/99	<2.0	
7LTD92	Phillips	Clive	SMR-1999	MW-3	09/22/99	<2.0	
7LTJ18	Flying J	Clive	Tier 2	MW18	09/23/99	<1	
7LTJ18	Flying J	Clive	Tier 2	MW19	09/23/99	<1	
7LTJ18	Flying J	Clive	Tier 2	MW20	10/13/99	102	
7LTJ18	Flying J	Clive	Tier 2	MW21	09/23/99	<1	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-9	09/08/99	<20	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-10	09/08/99	<10	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-11	09/08/99	<2.0	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-13	09/08/99	<2.0	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-16	09/08/99	<2.0	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-19	09/08/99	<2.0	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-20	09/08/99	<2.0	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-24	09/08/99	<200	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-25	09/08/99	<200	
8LTF92	Coastal Mart	Clive	SMR-1999	MW-26	09/08/99	<2.0	
7LTI84	Lincoln Sales & Service	Colfax	SMR	MW-7	09/10/99	<2	
7LTI84	Lincoln Sales & Service	Colfax	SMR	MW-12	09/10/99	<2	
7LTN97	Colfax APCO	Colfax	Tier 2	BH14/MW13	09/10/99	<1.0	
7LTN97	Colfax APCO	Colfax	Tier 2	BH15/MW14	09/10/99	179	
7LTD36	CASEYS	Columbus Juncti	T2	MW4	07/29/99	<15	
7LTD36	CASEYS	Columbus Juncti	T2	MW10	07/29/99	<15	
7LTD36	CASEYS	Columbus Juncti	T2	MW6	08/09/99	<15	
7LTO67	Conrad	Conrad	SMR	MW/WB-2	09/27/99	75	NA
7LTO67	Conrad	Conrad	SMR	MW-14	09/27/99	<2	NA
7LTO67	Conrad	Conrad	SMR	MW-17	09/27/99	<2	NA
7LTO67	Conrad	Conrad	SMR	MW-27	09/27/99	<200	NA

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTA32	Sinclair Station	Coralville	3rd Q SMR	MW-5	08/10/99	<50	
7LTA32	Sinclair Station	Coralville	3rd Q SMR	MW-8	08/10/99	1100	
7LTA32	Sinclair Station	Coralville	3rd Q SMR	MW-11	08/10/99	<40	
7LTC47	Wareco #663	Coralville	SMR	MW-2	07/08/99	2.1	
7LTC47	Wareco #663	Coralville	SMR	MW-3	07/08/99	<1.0	
7LTC47	Wareco #663	Coralville	SMR	MW-9	07/08/99	<1.0	
7LTC47	Wareco #663	Coralville	SMR	MW-11	07/08/99	<1.0	
7LTC47	Wareco #663	Coralville	SMR	MW-12	07/08/99	0.71	
7LTC47	Wareco #663	Coralville	SMR	MW-14	07/08/99	640	
7LTC47	Wareco #663	Coralville	SMR	MW-22	07/08/99	1.7	
7LTQ97	QT # 553	Coralville	Tier 2	MW-2	06/07/99	5	
7LTQ97	QT # 553	Coralville	Tier 2	MW-4	06/07/99	3	
7LTQ97	QT # 553	Coralville	Tier 2	EB-18	06/07/99	<2	
7LTQ97	QT # 553	Coralville	Tier 2	MW-3	07/08/99	<20	
8LTC78	Coralville 76	Coralville	Tier 2 Report	EWCR	07/17/99	19	
8LTL69	UPS	Coralville	SMR	MW 1	10/20/99	<15	
8LTL69	UPS	Coralville	SMR	MW 4	10/20/99	<15	
8LTL69	UPS	Coralville	SMR	RW 1	10/20/99	<15	
7LTD49	Sunshine MiniMart	Council Bluffs	CADR	SVE	10/20/99	52.2	CADR Field Work
7LTD49	Sunshine MiniMart	Council Bluffs	CADR	New (AMW-10)		<100	Matrix Interferences
7LTP08	Eddy's 1839	Council Bluffs	SMR	MW-1	08/26/99	12.6	
7LTP08	Eddy's 1839	Council Bluffs	SMR	MW-12	08/26/99	290	
7LTP09	Eddy's 611	Council Bluffs	1st	MW-8	09/07/99	<1	
7LTP09	Eddy's 611	Council Bluffs	1st	MW-9	09/07/99	<1	
7LTP09	Eddy's 611	Council Bluffs	1st	MW-10	09/07/99	<1	
7LTP09	Eddy's 611	Council Bluffs	1st	MW-13	09/07/99	2.29	
7LTP09	Eddy's 611	Council Bluffs	1st	MW-14	09/07/99	<1	
7LTP09	Eddy's 611	Council Bluffs	1st	MW-15	09/07/99	113	
7LTP09	Eddy's 611	Council Bluffs	pre-RBCA SMR	MW-8	09/07/99	<1	
7LTP09	Eddy's 611	Council Bluffs	pre-RBCA SMR	MW-9	09/07/99	<1	
7LTP09	Eddy's 611	Council Bluffs	pre-RBCA SMR	MW-10	09/07/99	<1	
7LTP09	Eddy's 611	Council Bluffs	pre-RBCA SMR	MW-13	09/07/99	2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTP09	Eddy's 611	Council Bluffs	pre-RBCA SMR	MW-14	09/07/99	<1	
7LTP09	Eddy's 611	Council Bluffs	pre-RBCA SMR	MW-15	09/07/99	113	
8LTE16	American Fuels	Council Bluffs	pre-RBCA	MW-8	09/13/99	<15	
8LTE16	American Fuels	Council Bluffs	pre-RBCA	MW-17	09/13/99	39	
8LTE16	American Fuels	Council Bluffs	pre-RBCA	MW-18	09/13/99	100	
8LTE16	American Fuels	Council Bluffs	pre-RBCA	MW-19	09/13/99	<15	
8LTE43	Kwik Shop #547	Council Bluffs	3rd Q SMR	MW-2	07/06/99	54	
8LTE43	Kwik Shop #547	Council Bluffs	3rd Q SMR	MW-3	07/06/99	77	
8LTE43	Kwik Shop #547	Council Bluffs	3rd Q SMR	MW-5	07/06/99	3.7	
8LTE43	Kwik Shop #547	Council Bluffs	3rd Q SMR	MW-6	07/06/99	5.7	
8LTM00	BFI	Council Bluffs	SMR-1999	MW-4	08/17/99	<1.0	
8LTM72	Delta	Crescent	T2	MW1	08/10/99	6040	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-1	07/07/99	<1	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-2	07/07/99	<100	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-3	07/07/99	<100	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-4	07/07/99	<10	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-5	08/05/99	<1	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-6	08/05/99	<1	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-7	08/05/99	<1	
8LTF33	Whitson Service	Creston	SMR	MW 5	07/30/99	58.5	
8LTF33	Whitson Service	Creston	SMR	MW 10	07/30/99	125	
7LTI55	Dean's Service	Danville	SMR	MW-1	07/20/99	26.8	
7LTI55	Dean's Service	Danville	SMR	MW-3	07/20/99	<1.0	
7LTI55	Dean's Service	Danville	SMR	MW-4	07/20/99	435	
7LTN20	Rockingham 66	Davenport	SMR	MW-4	07/07/99	1.4	
7LTN20	Rockingham 66	Davenport	SMR	MW-5	07/07/99	<100	
7LTN20	Rockingham 66	Davenport	SMR	MW-10	07/07/99	<1.0	
7LTR64	Dadaian's 66	Davenport	SMR	MW-1	07/02/99	<1.0	
7LTR64	Dadaian's 66	Davenport	SMR	MW-2	07/02/99	933	
7LTR64	Dadaian's 66	Davenport	SMR	MW-3	07/02/99	572	
7LTR64	Dadaian's 66	Davenport	SMR	MW-4	07/02/99	1.6	
7LTX67	Rejuvenate Dav.	Davenport	SMR	MW-2	07/07/99	<1.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTX67	Rejuvenate Dav.	Davenport	SMR	MW-3	07/07/99	<1.0	
7LTX67	Rejuvenate Dav.	Davenport	SMR	MW-4	07/07/99	<5.0	
7LTX67	Rejuvenate Dav.	Davenport	SMR	MW-9	07/07/99	<1.0	
8LTA15	Crouse Cartage Co	Davenport	SMR	MW-9	07/06/99	33.2	
8LTA15	Crouse Cartage Co	Davenport	SMR	MW-12	07/06/99	<1	
8LTA15	Crouse Cartage Co	Davenport	SMR	MW-14	07/06/99	<1	
8LTB05	Coastal Mart	Davenport	SMR-1999	MW-3R	09/24/99	<10	
8LTB05	Coastal Mart	Davenport	SMR-1999	BB-1R	09/24/99	<2	
8LTB05	Coastal Mart	Davenport	SMR-1999	MW-12	08/19/99	<10	
8LTB05	Coastal Mart	Davenport	SMR-1999	MW-16	08/19/99	<2	
8LTD10	Cen. Prk. Conoco	Davenport	SMR	MW-5	07/02/99	3.7	
8LTD10	Cen. Prk. Conoco	Davenport	SMR	MW-7	07/02/99	<10	
8LTD10	Cen. Prk. Conoco	Davenport	SMR	MW-8	07/02/99	15	
8LTD10	Cen. Prk. Conoco	Davenport	SMR	MW-9	07/02/99	<1.0	
8LTE68	School Bus Lot	Davenport	SMR	MW-1	07/01/99	1.5	
8LTE68	School Bus Lot	Davenport	SMR	MW-2	07/01/99	9.2	
8LTE68	School Bus Lot	Davenport	SMR	MW-3	07/01/99	3.9	
8LTE68	School Bus Lot	Davenport	SMR	MW-6	07/01/99	<1.0	
8LTE68	School Bus Lot	Davenport	SMR	MW-7	07/01/99	21.8	
8LTG14	Former Vickers #2388	Davenport	99 SMR	MW-1	7/20/99	7.4	
8LTG14	Former Vickers #2388	Davenport	99 SMR	MW-4	7/20/99	5	
8LTG14	Former Vickers #2388	Davenport	99 SMR	MW-8	7/20/99	2	
8LTG14	Former Vickers #2388	Davenport	99 SMR	MW-16	7/20/99	1.5	
8LTG61	Coastal Mart	Davenport	SMR-1999	OMW-1	08/11/99	209	
8LTG61	Coastal Mart	Davenport	SMR-1999	MW02-96	08/11/99	279	
8LTG61	Coastal Mart	Davenport	SMR-1999	MW03-96	08/11/99	1550	
8LTG61	Coastal Mart	Davenport	SMR-1999	MW84-1R	08/11/99	<20	
8LTG61	Coastal Mart	Davenport	SMR-1999	MW07-96	08/11/99	27	
8LTG61	Coastal Mart	Davenport	SMR-1999	OMW-5E	08/11/99	<20	
8LTG61	Coastal Mart	Davenport	SMR-1999	MW08-96	08/11/99	<4	
8LTG95	Kwik Shop #578	Davenport	Pre-RBCA-SMR	MW3	07/12/99	<15	
8LTG95	Kwik Shop #578	Davenport	Pre-RBCA-SMR	MW4	07/12/99	<15	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTG95	Kwik Shop #578	Davenport	Pre-RBCA-SMR	MW8	07/12/99	<15	
8LTG95	Kwik Shop #578	Davenport	Pre-RBCA-SMR	MW10	07/12/99	<15	
8LTG95	Kwik Shop #578	Davenport	Pre-RBCA-SMR	MW12	07/12/99	<15	
8LTG95	Kwik Shop #578	Davenport	Pre-RBCA-SMR	MW13	07/12/99	<15	
8LTG99	Kwik Shop #586	Davenport	Pre-RBCA-SMR	MW3	07/12/99	50	
8LTG99	Kwik Shop #586	Davenport	Pre-RBCA-SMR	MW4	07/12/99	22	
8LTG99	Kwik Shop #586	Davenport	Pre-RBCA-SMR	MW5	07/12/99	16	
8LTG99	Kwik Shop #586	Davenport	Pre-RBCA-SMR	MW6	07/12/99	<15	
8LTG99	Kwik Shop #586	Davenport	Pre-RBCA-SMR	MW8	07/12/99	55	
8LTM99	Republic Electric	Davenport	SMR	MW-1	07/16/99	<1.0	
8LTM99	Republic Electric	Davenport	SMR	MW-3	07/16/99	<1.0	
8LTM99	Republic Electric	Davenport	SMR	MW-4	07/16/99	<1.0	
8LTN20	Former Simkins Service	Davenport	SMR	MW-2	07/06/99	<10	
8LTN20	Former Simkins Service	Davenport	SMR	MW-3	07/06/99	<5	
8LTN20	Former Simkins Service	Davenport	SMR	MW-6	07/06/99	<1	
8LTN20	Former Simkins Service	Davenport	SMR	MW-11	07/06/99	<1	
8LTN20	Former Simkins Service	Davenport	SMR	WM-13	07/06/99	<1	
8LTN20	Former Simkins Service	Davenport	SMR	MW-14	07/06/99	<1	
8LTV54	River Mart	Davenport	SMR	MW-1	08/09/99	308	
8LTV54	River Mart	Davenport	SMR	MW-2	08/09/99	81	
8LTV54	River Mart	Davenport	SMR	MW-3	08/09/99	34.3	
8LTV54	River Mart	Davenport	SMR	MW-5	08/09/99	<1.0	
8LTY10	North HS	Davenport	SMR	MW-1	07/01/99	<1.0	
8LTY10	North HS	Davenport	SMR	MW-4	07/01/99	<1.0	
8LTY55	Ruan Term. #210	Davenport	SMR	MW-1A	07/01/99	2.4	
8LTY55	Ruan Term. #210	Davenport	SMR	MW-2	07/01/99	<1.0	
8LTY55	Ruan Term. #210	Davenport	SMR	MW-3	07/01/99	<1.0	
8LTY55	Ruan Term. #210	Davenport	SMR	MW-4	07/01/99	<1.0	
9LTB63	Marley Pump	Davenport	SMR 1999	MW-2	08/19/99	<5	
9LTB63	Marley Pump	Davenport	SMR 1999	MW-3-95	08/19/99	<1.0	
9LTB63	Marley Pump	Davenport	SMR 1999	MW-4-95	08/19/99	<1.0	
9LTB63	Marley Pump	Davenport	SMR 1999	MW-5-95	08/19/99	21.2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
9LTB63	Marley Pump	Davenport	SMR 1999	MW-6-95	08/19/99	<5.0	
9LTB63	Marley Pump	Davenport	SMR 1999	MW-7-95	08/19/99	1.4	
9LTC82	Former Dairy Mart #601	Davenport	4th Quarter	MW-7A	10/15/99	115	
9LTC82	Former Dairy Mart #601	Davenport	4th Quarter	MW-7A	10/15/99	115	
9LTC82	Former Dairy Mart #601	Davenport	3rd Quarter	MW-1	09/08/99	<1	
9LTC82	Former Dairy Mart #601	Davenport	3rd Quarter	MW-2	09/08/99	<1	
9LTC82	Former Dairy Mart #601	Davenport	3rd Quarter	MW-3	09/08/99	<1	
9LTC82	Former Dairy Mart #601	Davenport	3rd Quarter	MW-4	09/08/99	<1	
9LTC82	Former Dairy Mart #601	Davenport	3rd Quarter	MW-5	09/08/99	<1	
9LTC82	Former Dairy Mart #601	Davenport	3rd Quarter	MW-6	09/08/99	84	
9LTG38	Rejuvenate Davenport	Davenport	BH1/MW1	BH1/MW1	7/9/99&7/22/99	<1.0	
9LTG38	Rejuvenate Davenport	Davenport	BH2/MW2	BH2/MW2	7/9/99&7/22/99	<1.0	
9LTG38	Rejuvenate Davenport	Davenport	BH3/MW3	BH3/MW3	7/9/99&7/22/99	<1.0	
9LTG38	Rejuvenate Davenport	Davenport	BH1/MW1	BH1/MW1	7/9/99&7/22/99	<1.0	
9LTG38	Rejuvenate Davenport	Davenport	BH2/MW2	BH2/MW2	7/9/99&7/22/99	<1.0	
9LTG38	Rejuvenate Davenport	Davenport	BH3/MW3	BH3/MW3	7/9/99&7/22/99	<1.0	
9LTG38	Rejuvenate Davenport	Davenport	BH1/MW1	BH1/MW1	7/9/99&7/22/99	<1.0	
9LTG38	Rejuvenate Davenport	Davenport	BH2/MW2	BH2/MW2	7/9/99&7/22/99	<1.0	
9LTG38	Rejuvenate Davenport	Davenport	BH3/MW3	BH3/MW3	7/9/99&7/22/99	<1.0	
7LTF94	Former Dayton	Dayton	SMR-99	MW-2	09/27/99	<2	NA
7LTF94	Former Dayton	Dayton	SMR-99	MW-25	09/27/99	5.9	NA
7LTF94	Former Dayton	Dayton	SMR-99	MW-26	09/27/99	<2	NA
7LTF94	Former Dayton	Dayton	SMR-99	MW-27	09/27/99	<2	NA
7LTF94	Former Dayton	Dayton	SMR-99	MW-36	09/27/99	<400	NA
7LTF94	Former Dayton	Dayton	SMR-99	MW-37	09/27/99	906	NA
7LTF94	Former Dayton	Dayton	SMR-99	MW-38	09/27/99	37.8	NA
7LTF94	Former Dayton	Dayton	SMR-99	MW-39	09/27/99	6.6	NA
9LTA00	City of Decorah-RR	Decorah	3rd Q SMR	MW-201	07/13/99	<2	
9LTA00	City of Decorah-RR	Decorah	3rd Q SMR	MW-205	07/13/99	<2	
9LTA00	City of Decorah-RR	Decorah	3rd Q SMR	MW-207	07/13/99	<10	
9LTA06	Bohr's Amoco	Decorah	SMR-1999	MW-228	07/13/99	166	TBA<2500
9LTA06	Bohr's Amoco	Decorah	SMR-1999	MW-229	07/13/99	9	TBA<50



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
9LTC80	Faust Garge and Grocery	Delaware	Tier 2	MW-1	08/19/99	<1.0	
9LTC80	Faust Garge and Grocery	Delaware	Tier 2	MW-2	08/19/99	<1.0	
9LTC80	Faust Garge and Grocery	Delaware	Tier 2	MW-5	08/19/99	<1.0	
9LTC80	Faust Garge and Grocery	Delaware	Tier 2	MW-6	08/19/99	<1.0	
9LTC80	Faust Garge and Grocery	Delaware	Tier 2	MW-11	08/19/99	<10.0	
9LTC80	Faust Garge and Grocery	Delaware	Tier 2	MW-201	08/19/99	<1.0	
7LTK84	Kum & Go #630	Denison	SMR	MW 7B	09/22/99	33	
7LTK84	Kum & Go #630	Denison	SMR	MW 13	09/22/99	139	
7LTK84	Kum & Go #630	Denison	SMR	MW 14	09/22/99	<1.0	
8LTB71	Casey's	Denison	Tier 2	MW-1	08/06/99	<200	
8LTB71	Casey's	Denison	Tier 2	MW-2	08/09/99	<2	
8LTB71	Casey's	Denison	Tier 2	MW-3	08/06/99	<2	
8LTB71	Casey's	Denison	Tier 2	MW-4	08/06/99	<2	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-10	07/12/99	<1.0	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-11	07/12/99	<1.0	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-12	07/12/99	<1.0	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-13	07/12/99	<1.0	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-14	07/12/99	<1.0	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-15	07/12/99	<1.0	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-3J	07/12/99	<10	
7LTJ19	Schallers 66	Des Moines	SMR	MW-5	08/27/99	2.3	NA
7LTJ19	Schallers 66	Des Moines	SMR	MW-6	08/27/99	<100	NA
7LTJ19	Schallers 66	Des Moines	SMR	MW-7	08/27/99	<10	NA
7LTJ19	Schallers 66	Des Moines	SMR	7-MW	08/27/99	<200	NA
7LTJ19	Schallers 66	Des Moines	SMR	MW-8	08/27/99	295	NA
7LTJ19	Schallers 66	Des Moines	SMR	MW-9	08/27/99	8550	NA
7LTJ19	Schallers 66	Des Moines	SMR	MW-10	08/27/99	<2	NA
7LTJ19	Schallers 66	Des Moines	SMR	10-MW	08/27/99	576	NA
7LTJ19	Schallers 66	Des Moines	SMR	11-MW	08/27/99	2020	NA
8LTK56	Gillotti	Des Moines	SMR	MW-5	09/15/99	8.4	NA
8LTK56	Gillotti	Des Moines	SMR	MW-20	09/15/99	<2	NA
8LTK56	Gillotti	Des Moines	SMR	MW-D	09/15/99	<2	NA

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTL18	Caldwell &	Des Moines	SMR	3/MW-1	09/10/99	2.8	NA
8LTL18	Caldwell &	Des Moines	SMR	3/MW-3	09/08/99	<2	NA
8LTL18	Caldwell &	Des Moines	SMR	MW-6	09/10/99	<10	NA
8LTL18	Caldwell &	Des Moines	SMR	MW-205	09/08/99	26.3	NA
8LTL18	Caldwell &	Des Moines	SMR	MW-215	09/08/99	<10	NA
8LTL18	Caldwell &	Des Moines	SMR	MW219A	09/08/99	<100	NA
8LTR85	Keck Bulk	Des Moines	SMR	MW-1	09/10/99	<50	NA
8LTR85	Keck Bulk	Des Moines	SMR	MW-5	09/10/99	<100	NA
8LTR85	Keck Bulk	Des Moines	SMR	MW-9	09/10/99	<100	NA
8LTR85	Keck Bulk	Des Moines	SMR	MW-10	09/10/99	<100	NA
8LTR85	Keck Bulk	Des Moines	SMR	MW-11	09/10/99	<2	NA
8LTR85	Keck Bulk	Des Moines	SMR	MW-15	09/10/99	16.2	NA
8LTR85	Keck Bulk	Des Moines	SMR	MW-31	09/08/99	<2	NA
8LTR85	Keck Bulk	Des Moines	SMR	MW-216	09/10/99	<40	NA
7LTA69	Coastal Mart	Des Moines	SMR-1999	MW-5	09/08/99	<100	
7LTA69	Coastal Mart	Des Moines	SMR-1999	MW-13	09/08/99	<2	
7LTA69	Coastal Mart	Des Moines	SMR-1999	MW-17	09/08/99	<2	
7LTA69	Coastal Mart	Des Moines	SMR-1999	MW-19	09/08/99	<2	
7LTA69	Coastal Mart	Des Moines	SMR-1999	MW-20	09/08/99	<2	
7LTA93	2nd Avenue Deli	Des Moines	SMR	MW-2	09/27/99	<1.0	
7LTA93	2nd Avenue Deli	Des Moines	SMR	MW-7	09/27/99	83.7	
7LTA93	2nd Avenue Deli	Des Moines	SMR	MW-8	09/27/99	<100	
7LTA93	2nd Avenue Deli	Des Moines	SMR	MW-9	09/27/99	20.9	
7LTA93	2nd Avenue Deli	Des Moines	SMR	MW-12	09/27/99	<5.0	
7LTB10	Laws 66	Des Moines	SMR 99	MW-B	07/17/99	25.3	
7LTB10	Laws 66	Des Moines	SMR 99	MW-H	07/17/99	42.4	
7LTB10	Laws 66	Des Moines	SMR 99	MW-1	07/17/99	64	
7LTB10	Laws 66	Des Moines	SMR 99	MW-8	07/17/99	107	
7LTB10	Laws 66	Des Moines	SMR 99	MW-9	07/17/99	57.6	
7LTB10	Laws 66	Des Moines	SMR 99	MW-10	07/17/99	27.7	
7LTB10	Laws 66	Des Moines	SMR 99	MW-16	07/17/99	8	
7LTB10	Laws 66	Des Moines	SMR 99	MH-1	07/17/99	<2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTB50	Coastal Mart	Des Moines	SMR-1999	MW-5	09/26/99	41.5	
7LTB50	Coastal Mart	Des Moines	SMR-1999	MW-11	09/26/99	131	
7LTB50	Coastal Mart	Des Moines	SMR-1999	MW-13	09/26/99	<40	
7LTB50	Coastal Mart	Des Moines	SMR-1999	MW-14	09/26/99	12.9	
7LTB50	Coastal Mart	Des Moines	SMR-1999	MW-18	09/26/99	12.9	TAME detected
7LTE81	QuikTrip #535	Des Moines	SMR	MW-3	10/11/99	2.6	
7LTE81	QuikTrip #535	Des Moines	SMR	MW-221	10/11/99	28	
7LTE81	QuikTrip #535	Des Moines	SMR	MW-1	10/11/99	3.1	
7LTE81	QuikTrip #535	Des Moines	SMR	SW-1	10/11/99	<100	
7LTE81	QuikTrip #535	Des Moines	SMR	SW-2	10/11/99	<100	
7LTH52	Coastal Mart	Des Moines	SMR-1999	MW-1	08/18/99	<10	
7LTH52	Coastal Mart	Des Moines	SMR-1999	MW-2	08/18/99	<2.0	
7LTH52	Coastal Mart	Des Moines	SMR-1999	MW-6	08/18/99	<200	
7LTH52	Coastal Mart	Des Moines	SMR-1999	MW-13	08/18/99	<2.0	
7LTH52	Coastal Mart	Des Moines	SMR-1999	MW-14	08/18/99	19	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW-1	08/23/99	<2	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW-2	08/23/99	<2	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW-3	08/23/99	<2	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW-4	08/23/99	<2	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	2MW	08/18/99	90.4	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	BH1/MW1	08/18/99	<1.0	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	3MW	08/18/99	<1.0	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	6MW	"	97.5	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	31MW	"	124	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	14MW	"	21.9	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	18MW	"	2.3	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW10	"	437	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW16	"	292	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW22	"	<1.0	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW23	"	<1.0	
7LTL46	Quik Trip #544	Des Moines	2nd Qtr SMR	MW-2	07/14/99	<2	
7LTL46	Quik Trip #544	Des Moines	2nd Qtr SMR	MW-5	07/14/99	<2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTL46	Quik Trip #544	Des Moines	2nd Qtr SMR	MW-11	07/14/99	<2	
7LTL46	Quik Trip #544	Des Moines	2nd Qtr SMR	MW-12	07/14/99	<2	
7LTM33	QuikTrip #538	Des Moines	SMR	MW-227	10/06/99	<2	
7LTM33	QuikTrip #538	Des Moines	SMR	MW-216	10/06/99	2.5	
7LTM33	QuikTrip #538	Des Moines	SMR	MW-11	10/06/99	1.5	
7LTN62	QuikTrip #550	Des Moines	SMR	MW-6	07/14/99	<2	
7LTN62	QuikTrip #550	Des Moines	SMR	MW-7	07/14/99	<2	
7LTN62	QuikTrip #550	Des Moines	SMR	MW-8	07/14/99	35.3	
7LTN62	QuikTrip #550	Des Moines	SMR	MW-4	07/14/99	<2	
7LTN62	QuikTrip #550	Des Moines	SMR	MW-11	07/14/99	68.2	
7LTN64	QuikTrip #534	Des Moines	SMR	MW-214	10/06/99	<2	
7LTN64	QuikTrip #534	Des Moines	SMR	MW-7	10/06/99	2.5	
7LTN64	QuikTrip #534	Des Moines	SMR	MW-1	10/06/99	<2	
7LTN64	QuikTrip #534	Des Moines	SMR	MW-5	10/06/99	<2	
7LTN64	QuikTrip #534	Des Moines	SMR	MW-3	10/06/99	2.5	
7LTN68	Quik Trip #527	Des Moines	Tier 1	MW-8A	09/02/99	84.1	
7LTN68	Quik Trip #527	Des Moines	Tier 1	MW-9	09/02/99	<10	
7LTN68	Quik Trip #527	Des Moines	Tier 1	MW-10	09/02/99	140	
7LTN68	Quik Trip #527	Des Moines	Tier 1	MW-14	09/02/99	11.5	
7LTR99	QuikTrip #523	Des Moines	SMR	MW-1	09/14/99	214	
7LTR99	QuikTrip #523	Des Moines	SMR	MW-3	09/14/99	<2	
7LTR99	QuikTrip #523	Des Moines	SMR	MW-4	09/14/99	<2	
7LTR99	QuikTrip #523	Des Moines	SMR	MW-5	09/14/99	<2	
7LTR99	QuikTrip #523	Des Moines	SMR	MW-6	09/14/99	<2	
7LTR99	QuikTrip #523	Des Moines	SMR	MW-8	09/14/99	115	
7LTX83	Sinclair Station #14016	Des Moines	3rd Q SMR	W-1	08/06/99	<2	
7LTX83	Sinclair Station #14017	Des Moines	3rd Q SMR	MW-3	08/11/99	<2	
7LTX83	Sinclair Station #14018	Des Moines	3rd Q SMR	MW-4	08/11/99	<2	
7LTX83	Sinclair Station #14019	Des Moines	3rd Q SMR	MW-5	08/06/99	100	
7LTX83	Sinclair Station #14020	Des Moines	3rd Q SMR	MW-7	08/06/99	104	
8LTE80	Coastal Mart	Des Moines	SMR-1999	MW-3A	09/21/99	<2	
8LTE80	Coastal Mart	Des Moines	SMR-1999	MW-4A	09/21/99	<2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTE80	Coastal Mart	Des Moines	SMR-1999	MW-8	09/21/99	<2	
8LTE81	Coastal Mart	Des Moines	SMR-1999	MW-4	07/28/99	<100	
8LTE81	Coastal Mart	Des Moines	SMR-1999	MW-5	07/28/99	<2.0	
8LTE81	Coastal Mart	Des Moines	SMR-1999	MW-6	07/28/99	<10	
8LTE81	Coastal Mart	Des Moines	SMR-1999	MW-7	07/28/99	14	
8LTE81	Coastal Mart	Des Moines	SMR-1999	MW-8	07/28/99	<2.0	
8LTE81	Coastal Mart	Des Moines	SMR-1999	MW-9	07/28/99	<2.0	
8LTE81	Coastal Mart	Des Moines	SMR-1999	MW-16	07/28/99	<2.0	
8LTE81	Coastal Mart	Des Moines	SMR-1999	MW-17	07/28/99	12.3	
8LTE81	Coastal Mart	Des Moines	SMR-1999	MW-25	07/28/99	<200	
8LTE91	Clark Brothers Transfer, In	Des Moines	SMR	MW-1	09/03/99	<5	
8LTE91	Clark Brothers Transfer, In	Des Moines	SMR	MW-2	09/03/99	<1.0	
8LTE91	Clark Brothers Transfer, In	Des Moines	SMR	MW-210	09/03/99	<5	
8LTF90	Coastal Mart	Des Moines	SMR-1999	MW-2B	08/19/99	8.2	ETBE Detected
8LTF90	Coastal Mart	Des Moines	SMR-1999	MW-4B	08/19/99	208	ETBE Detected
8LTF90	Coastal Mart	Des Moines	SMR-1999	MW-5B	08/19/99	1050	ETBE, DIPE Detected
8LTF90	Coastal Mart	Des Moines	SMR-1999	MW-7B	08/19/99	<2.0	
8LTG34	Coastal Mart	Des Moines	SMR-1999	MW-2	08/18/99	802	ETBE detected
8LTG34	Coastal Mart	Des Moines	SMR-1999	MW-4	08/18/99	200	ETBE detected
8LTG34	Coastal Mart	Des Moines	SMR-1999	MW-6	08/18/99	142	ETBE detected
8LTG34	Coastal Mart	Des Moines	SMR-1999	MW-14	08/18/99	33.3	ETBE detected
8LTG34	Coastal Mart	Des Moines	SMR-1999	MW-20	08/18/99	4.6	ETBE detected
8LTG34	Coastal Mart	Des Moines	SMR-1999	MW-8	09/02/99	<2	
8LTG36	Coastal Mart	Des Moines	SMR-1999	MW-1	10/12/99	<200	
8LTG36	Coastal Mart	Des Moines	SMR-1999	MW-3	10/12/99	<100	
8LTG36	Coastal Mart	Des Moines	SMR-1999	MW-4	10/12/99	<200	
8LTG36	Coastal Mart	Des Moines	SMR-1999	MW-6	10/12/99	<2.0	
8LTG36	Coastal Mart	Des Moines	SMR-1999	MW-8	10/12/99	<200	
8LTG36	Coastal Mart	Des Moines	SMR-1999	MW-10	10/12/99	6	DIPE and TBA detected
8LTG71	Dahlen Transport	Des Moines	1999 SMR	MW-3a	07/22/99	<1.0	
8LTI25	Ford / COSTEL	Des Moines	SMR	MW-304	08/27/99	<10	
8LTI25	Ford / COSTEL	Des Moines	SMR	P-1r	08/27/99	<10	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTJ13	Sinclair #14019	Des Moines	Tier 1	MW11	09/21/99	<2	
8LTJ15	Sinclair	Des Moines	Tier 1	MW3	07/16/99	61.9	
8LTJ15	Sinclair	Des Moines	Tier 1	MW-4	07/16/99	389	
8LTJ15	Sinclair	Des Moines	Tier 1	MW-5	07/16/99	224	
8LTJ15	Sinclair	Des Moines	Tier 1	MW-11	07/16/99	627	
8LTJ15	Sinclair	Des Moines	Tier 1	MW-12	07/16/99	52.1	
8LTJ15	Sinclair	Des Moines	Tier 1	MW-13	07/16/99	397	
8LTJ15	Sinclair	Des Moines	Tier 1	MW-14	07/16/99	100	
8LTJ15	Sinclair	Des Moines	Tier 1	MW-21	07/16/99	78.2	
8LTJ15	Sinclair	Des Moines	Tier 1	MW-1	07/16/99	52.7	
8LTJ15	Sinclair	Des Moines	Tier 1	DUP	07/16/99	81.8	
8LTL43	Drake University	Des Moines	SMR	MW 30	09/30/99	<1.0	
8LTL43	Drake University	Des Moines	SMR	MW 33	09/30/99	<10	
8LTL43	Drake University	Des Moines	SMR	MW 35	09/30/99	<10	
8LTL43	Drake University	Des Moines	SMR	MW 38	09/30/99	<1.0	
8LTL43	Drake University	Des Moines	SMR	MW 40	09/30/99	<100	
8LTQ04	Housby Mack	Des Moines	SMR	MW3	09/09/99	<1.0	
8LTQ04	Housby Mack	Des Moines	SMR	MW10	09/09/99	<1.0	
8LTQ04	Housby Mack	Des Moines	SMR	MW11	09/09/99	<1.0	
8LTV66	Texaco Univ.	Des Moines	Tier I	TMW-1	10/06/99	<10	
8LTV66	Texaco Univ.	Des Moines	Tier I	TMW-2	10/06/99	<10	
8LTV66	Texaco Univ.	Des Moines	Tier I	TMW-3	10/06/99	<10	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-4A	01/26/94	<2	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-106	04/12/94	1500	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-105	05/05/94	<2	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-210	07/20/99	<2	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-4A	07/20/99	<2	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-105	07/20/99	<2	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-208	07/20/99	7.5	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-106	07/20/99	<2	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-211	07/20/99	<2	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	MW-212	07/20/99	<2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTZ25	Ralph's Parking Lot	Des Moines	Tier 1	MW-1	09/09/99	<2.	
8LTZ25	Ralph's Parking Lot	Des Moines	Tier 1	MW-2	09/09/99	<2.	
8LTZ25	Ralph's Parking Lot	Des Moines	Tier 1	MW-3	09/09/99	<4.	
8LTZ25	Ralph's Parking Lot	Des Moines	Tier 1	MW-8	09/09/99	<4.	
8LTZ25	Ralph's Parking Lot	Des Moines	Tier 1	MW-9	09/09/99	<4.	
8LTZ25	Ralph's Parking Lot	Des Moines	Tier 1	MW-10	09/09/99	<2.	
9LTB55	Phillips	Des Moines	SMR-1999	MW-1	09/23/99	<200	
9LTB55	Phillips	Des Moines	SMR-1999	MW-2	09/23/99	<2.0	TAME and TBA detected
9LTB55	Phillips	Des Moines	SMR-1999	MW-3	09/23/99	<2.0	
9LTB55	Phillips	Des Moines	SMR-1999	MW-4	09/23/99	<2.0	
9LTD43	Burger King	Des Moines	99 SMR	MW-1	9/13/99	<4	
9LTD43	Burger King	Des Moines	99 SMR	MW-2	9/13/99	<2	
9LTD43	Burger King	Des Moines	99 SMR	MW-3	9/13/99	<2	
9LTD43	Burger King	Des Moines	99 SMR	MW-4	9/13/99	<2	
9LTD48	Seneca Corp.	Des Moines	Tier 2	BH2/MW 2	10/24/99	<2.0	
9LTE83	2705 Grand	Des Moines	Tier 1	MW-1	08/19/99	<2	
9LTE83	2705 Grand	Des Moines	Tier 1	MW-2	08/19/99	<2	
9LTE83	2705 Grand	Des Moines	Tier 1	MW-3	08/19/99	<2	
9LTF94	Salvation Army	Des Moines	Tier 2	MW-1	07/12/99	<1.0	
9LTF94	Salvation Army	Des Moines	Tier 2	MW-2	07/12/99	<1.0	
9LTF94	Salvation Army	Des Moines	Tier 2	MW-3	07/12/99	<1.0	
9LTF94	Salvation Army	Des Moines	Tier 2	MW-4	07/12/99	<1.0	
9LTF94	Salvation Army	Des Moines	Tier 2	MW-5	07/12/99	<1.0	
9LTF94	Salvation Army	Des Moines	Tier 2	MW-6	07/12/99	<1.0	
9LTF94	Salvation Army	Des Moines	Tier 2	MW-8	07/12/99	<1.0	
9LTH48	Former Station	Des Moines	Tier 1	MW-3	08/05/99	<1	
9LTH48	Former Station	Des Moines	Tier 1	MW-6	08/05/99	<1	
9LTH48	Former Station	Des Moines	Tier 1	MW-2	08/05/99	<1	
9LTH48	Former Station	Des Moines	Tier 1	MW-101	08/05/99	<1	
9LTH48	Former Station	Des Moines	Tier 1	MW-102	08/05/99	<1	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW17	09/26/99	2.5	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW22	09/26/99	<1	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW23	09/26/99	17.7	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW29	09/26/99	3.23	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW6	07/08/99	<1	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW1	07/08/99	<1	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW12	07/08/99	<10	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW33	07/08/99	7.7	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW19	07/08/99	1.6	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW5	07/08/99	2.18	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW16	07/08/99	<1	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW7	07/08/99	<1	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW10	07/08/99	15.6	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW11	07/08/99	<1	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW18	07/08/99	1.72	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW2	07/08/99	15.5	
7ltr61	Roy's Motor Svc	Des Moines	SMR	MW4	07/08/99	255	
9LTD00	DELL OIL	Des Moines	Tier 2	5MW	10/27/99	547	
8LTV27	Hi-Way Auto	DeSoto	SMR	99781 - 4 (W	09/30/99	4.7	NONE
8LTV27	Hi-Way Auto	DeSoto	SMR	99781 - 5 (W	09/30/99	593	NONE
7LTH47	Fmr Wendell Oil	DeWitt	T2	MW21	07/08/99	<15	
7LTH47	Fmr Wendell Oil	DeWitt	T2	MW2	07/08/99	<15	
7LTL73	City of DeWitt Maintenance	DeWitt	Tier 1 Report	MW-1	09/29/99	43	
7LTL73	City of DeWitt Maintenance	DeWitt	Tier 1 Report	MW-2	09/29/99	37	
7LTL73	City of DeWitt Maintenance	DeWitt	Tier 1 Report	MW-3	09/29/99	1.6	
7LTL73	City of DeWitt Maintenance	DeWitt	Tier 1 Report	MW-7	09/29/99	<1.0	
7LTL73	City of DeWitt Maintenance	DeWitt	Tier 1 Report	MW-9	09/29/99	<1.0	
8LTN71	Waderich Sunoco	Dow City	Tier 1	MW-7	10/15/99	<1.0	
8LTN71	Waderich Sunoco	Dow City	Tier 1	MW-8	10/15/99	<1.0	
8LTN71	Waderich Sunoco	Dow City	Tier 1	MW-9	10/15/99	34.2	
8LTN71	Waderich Sunoco	Dow City	Tier 1	MW-10	10/15/99	<1.0	
8LTN71	Waderich Sunoco	Dow City	Tier 1	MW-11	10/15/99	<1.0	
8LTN71	Waderich Sunoco	Dow City	Tier 1	MW-12	10/15/99	<1.0	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
7LTX69	Former Cormeny's Oil	Drakesville	SMR	EMW-2	07/21/99	6200	
7LTX69	Former Cormeny's Oil	Drakesville	SMR	MW-1	07/21/99	1200	
7LTX69	Former Cormeny's Oil	Drakesville	SMR	MW-9	07/21/99	2000	
7LTX69	Former Cormeny's Oil	Drakesville	SMR	MW-10	07/21/99	<1.0	
7LTX69	Former Cormeny's Oil	Drakesville	SMR	MW-11	07/21/99	150	
7LTX69	Former Cormeny's Oil	Drakesville	SMR	MW-13	07/21/99	2	
7LTX69	Former Cormeny's Oil	Drakesville	SMR	MW-15	07/21/99	2	
8LTY78	McCann's	Dubuque	Tier 2	MW1	07/08/99	803	
8LTY78	McCann's	Dubuque	Tier 2	MW2	07/08/99	201	
8LTY78	McCann's	Dubuque	Tier 2	MW3	07/08/99	1630	
8LTY78	McCann's	Dubuque	Tier 2	MW4	07/08/99	<1.0	
8LTY78	McCann's	Dubuque	Tier 2	MW8	07/08/99	<1.0	
9LTA23	United Rental	Dubuque	3rd Q SMR	MW-1	10/05/99	39.3	
9LTA23	United Rental	Dubuque	3rd Q SMR	MW-2	10/05/99	423	
9LTA23	United Rental	Dubuque	3rd Q SMR	MW-3	10/05/99	<2	
9LTA23	United Rental	Dubuque	3rd Q SMR	MW-6	10/05/99	<2	
9LTA23	United Rental	Dubuque	3rd Q SMR	MW-7	10/05/99	<2	
9LTA23	United Rental	Dubuque	3rd Q SMR	MW-8	10/05/99	116	
9LTE35	SKW BiIndustries	DUBUQUE	SMR-99	MW-1	07/28/99	<5	
9LTE35	SKW BiIndustries	DUBUQUE	SMR-99	MW-5	07/28/99	<1	
9LTG39	Former Firestone Store	Dubuque	SMR-1999	MW-4	07/21/99	<100	None
9LTG39	Former Firestone Store	Dubuque	SMR-1999	MW-9	07/21/99	<40	None
9LTG39	Former Firestone Store	Dubuque	SMR-1999	MW-15	07/21/99	<2	None
9LTG39	Former Firestone Store	Dubuque	SMR-1999	MW-11	07/28/99	<2	None
9LTH86	Shulan	Dubuque	Tier 1	MW1	08/10/99	<1.0	
9LTH86	Shulan	Dubuque	Tier 1	MW2	08/10/99	<1.0	
9LTH86	Shulan	Dubuque	Tier 1	MW3	08/10/99	<1.0	
9LTH86	Shulan	Dubuque	Tier 1	MW4	08/10/99	<1.0	
8LTC86	Duncombe Gas-n-Grocery	Duncombe	SMR	MW-1	09/14/99	57	
8LTC86	Duncombe Gas-n-Grocery	Duncombe	SMR	MW-2	09/14/99	26	
8LTC86	Duncombe Gas-n-Grocery	Duncombe	SMR	MW-8	09/14/99	<15	
9LTA24	IDOT Dyersville Maintenan	Dyersville	Tier 2	MW1	07/22/99	<1.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring		Sample Date (mm/dd/yyyy)	MTBE	
			Event	Sample ID		Groundwater (ug/L)	Comments
9LTA24	IDOT Dyersville Mainten	Dyersville	Tier 2	MW2	07/22/99	2.5	
9LTA24	IDOT Dyersville Mainten	Dyersville	Tier 2	MW3	07/22/99	<1.0	
9LTA24	IDOT Dyersville Mainten	Dyersville	Tier 2	MW4	07/22/99	<1.0	
9LTA24	IDOT Dyersville Mainten	Dyersville	Tier 2	MW5	07/22/99	<1.0	
9LTA24	IDOT Dyersville Mainten	Dyersville	Tier 2	TMW6	07/22/99	<1.0	
9LTB94	Docs Stop 6	Eagle Grove	Tier-2	MW-7	08/29/99	<200	NA
9LTB94	Docs Stop 6	Eagle Grove	Tier-2	MW-4	11/06/99	1200	NA
8LTF55	Coastal Mart	Eagle Grove	SMR-1999	MW-2	08/17/99	<2.0	
8LTF55	Coastal Mart	Eagle Grove	SMR-1999	MW-6	08/17/99	46.5	
8LTF55	Coastal Mart	Eagle Grove	SMR-1999	SW-1	08/17/99	48.7	
8LTF55	Coastal Mart	Eagle Grove	SMR-1999	SW-3	08/17/99	18.8	ETBE Detected
8LTF55	Coastal Mart	Eagle Grove	SMR-1999	SW-4	08/17/99	4	
8LTF55	Coastal Mart	Eagle Grove	SMR-1999	SW-5	08/17/99	68.6	
8LTF55	Coastal Mart	Eagle Grove	SMR-1999	SW-6	08/17/99	47.8	TBA Detected
8LTF99	Std Car Care	Edgewood	Revised T2 1999	MW-1	10/05/99	<15	
8LTF99	Std Car Care	Edgewood	Revised T2 1999	MW-2	10/05/99	<15	
8LTF99	Std Car Care	Edgewood	Revised T2 1999	MW-3	10/05/99	<15	
8LTF99	Std Car Care	Edgewood	Revised T2 1999	EMW-1	10/05/99	74	
7LTF55	Former Car Care Corner	Eldora	SMR	97777-1 (W)	09/14/99	<2	NONE
7LTF55	Former Car Care Corner	Eldora	SMR	97777-2 (W)	09/14/99	<40	NONE
7LTF55	Former Car Care Corner	Eldora	SMR	97777-3 (W)	09/14/99	<2	NONE
7LTF55	Former Car Care Corner	Eldora	SMR	97777-7 (W)	09/14/99	88.6	NONE
7LTF55	Former Car Care Corner	Eldora	SMR	97777-9 (W)	09/14/99	267	NONE
7LTF55	Former Car Care Corner	Eldora	SMR	97777-18 (W)	09/14/99	2630	NONE
7LTF55	Former Car Care Corner	Eldora	SMR	97777-19 (W)	09/14/99	<50	NONE
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-11	09/21/99	64.2	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-14	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-15	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-16	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-11	09/21/99	64.2	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-14	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-15	09/21/99	<1.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-16	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-11	09/21/99	64.2	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-14	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-15	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-16	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-11	09/21/99	64.2	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-14	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-15	09/21/99	<1.0	
8LTB95	FAA Vortac Facility	Eldridge	SMR	MW-16	09/21/99	<1.0	
8LTA43	Sear's 66 Service	Elkport	SMR	MW1	09/07/99	865	
8LTA43	Sear's 66 Service	Elkport	SMR	MW2	09/07/99	<1.0	
8LTA43	Sear's 66 Service	Elkport	SMR	MW3	09/07/99	<1.0	
8LTA43	Sear's 66 Service	Elkport	SMR	MW4	09/07/99	12	
8LTA43	Sear's 66 Service	Elkport	SMR	MW5	09/07/99	79.9	
7LTN23	Kum & Go #609	Emmetsburg	SMR	Ready Mix	07/14/99	<1.0	
7LTN23	Kum & Go #609	Emmetsburg	SMR	Ken Krause	07/14/99	<1.0	
7LTN23	Kum & Go #609	Emmetsburg	SMR	MW 6	10/01/99	<10	
7LTN23	Kum & Go #609	Emmetsburg	SMR	MW 9	10/01/99	<1.0	
7LTN23	Kum & Go #609	Emmetsburg	SMR	MW 13	10/01/99	<1.0	
7LTN23	Kum & Go #609	Emmetsburg	SMR	MW 21	10/01/99	50.4	
7LTQ51	Emmetsburg	Emmetsburg	Tier-2	MW-8	07/31/99	<100	NA
8LTC90	Sheridan 66	Essex	Tier 2	MW-9	10/12/99	<10	
8LTC90	Sheridan 66	Essex	Tier 2	MW-17	10/12/99	<50	
8LTC90	Sheridan 66	Essex	Tier 2	MW-19	10/12/99	<10	
8LTC90	Sheridan 66	Essex	Tier 2	MW-23	10/12/99	<50	
8LTC90	Sheridan 66	Essex	Tier 2	B-2	10/12/99	<50	
8LTC90	Sheridan 66	Essex	Tier 2	wtr2	10/12/99	<10	
8LTC90	Sheridan 66	Essex	Tier 2	wtr3	10/12/99	<10	
8LTC90	Sheridan 66	Essex	Tier 2	blank	10/12/99	<1	
7LTL63	KG#423	Estherville	T2	MW3	07/14/99	9	
7LTS08	Station Mart	Evansdale	Tier 1- 1999	SMW-2	10/21/99	<1.0	
7LTM58	Fairfax Handi-Mart	Fairfax	SMR	EW1	09/30/99	7.5	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTM58	Fairfax Handi-Mart	Fairfax	SMR	MW6	09/30/99	<25	
7LTM58	Fairfax Handi-Mart	Fairfax	SMR	MW9	09/30/99	<1.0	
7LTM58	Fairfax Handi-Mart	Fairfax	SMR	MW10	09/30/99	<5.0	
7LTO03	Kessels Conoco	Fairfield	1999 SMR	MW-10	08/17/99	<15	
7LTO03	Kessels Conoco	Fairfield	1999 SMR	MW-12	08/17/99	<15	
7LTO03	Kessels Conoco	Fairfield	1999 SMR	MW-13	08/17/99	900	
7LTO03	Kessels Conoco	Fairfield	1999 SMR	MW-14	08/17/99	71	
7LTW41	Maah's Standard	Farley	SMR	MW3	08/26/99	3.3	
7LTW41	Maah's Standard	Farley	SMR	MW4	08/26/99	<1.0	
7LTW41	Maah's Standard	Farley	SMR	MW5	08/26/99	<10	
7LTW41	Maah's Standard	Farley	SMR	MW6	08/26/99	883	
7LTW41	Maah's Standard	Farley	SMR	MW7	08/26/99	<1.0	
7LTW41	Maah's Standard	Farley	SMR	MW9	08/26/99	<5.0	
7LTW41	Maah's Standard	Farley	SMR	MW14	08/26/99	<1.0	
7LTM63	CLARK	FOREST CITY	SMR	MW2	09/30/99	<2	
7LTM63	CLARK	FOREST CITY	SMR	MW3	09/30/99	<2	
7LTM63	CLARK	FOREST CITY	SMR	MW4	09/30/99	42	
8LTP66	Winnebago Airport	Forest City	SMR-1999	MW-13	07/28/99	2.79	
8LTP66	Winnebago Airport	Forest City	SMR-1999	BH-17	07/28/99	<1.0	
8LTP66	Winnebago Airport	Forest City	SMR-1999	BH-18	07/28/99	<1.0	
8LTP66	Winnebago Airport	Forest City	SMR-1999	MW-7	07/28/99	<100	
8LTP66	Winnebago Airport	Forest City	SMR-1999	MW-5	07/28/99	<1.0	
8LTP66	Winnebago Airport	Forest City	SMR-1999	BH-27	07/28/99	<1.0	
8LTP66	Winnebago Airport	Forest City	SMR-1999	MW-401	07/28/99	<1000	
8LTK35	County Main. Bldg.	Fort Atkinson	SMR	MW2	08/24/99	<10	
8LTK35	County Main. Bldg.	Fort Atkinson	SMR	MW3	08/24/99	<5	
8LTK35	County Main. Bldg.	Fort Atkinson	SMR	MW10	08/24/99	<1.0	
8LTF64	Coastal Mart	Fort Dodge	SMR-1999	MW-1	07/28/99	<2.0	
8LTF64	Coastal Mart	Fort Dodge	SMR-1999	MW-3	07/28/99	297	ETBE Detected
8LTF64	Coastal Mart	Fort Dodge	SMR-1999	MW-4	07/28/99	<20	
8LTF64	Coastal Mart	Fort Dodge	SMR-1999	MW-5	07/28/99	114	ETBE Detected
8LTF64	Coastal Mart	Fort Dodge	SMR-1999	MW-8	07/28/99	<2.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTU04	Docs Stop 1	Fort Dodge	SMR 99	MW-2	9/12/99	261	
8LTU04	Docs Stop 1	Fort Dodge	SMR 99	MW-6	9/12/99	<2	
8LTU04	Docs Stop 1	Fort Dodge	SMR 99	MW-8	9/12/99	39.5	
8LTU04	Docs Stop 1	Fort Dodge	SMR 99	MW-9	9/12/99	<2	
8LTU04	Docs Stop 1	Fort Dodge	SMR 99	MW-10	9/12/99	12.7	
8LTU04	Docs Stop 1	Fort Dodge	SMR 99	MW-12	9/12/99	<2	
7LTT94	Jim's Texaco	Fort Dodge	SMR	MW8	07/15/99	262	
7LTT94	Jim's Texaco	Fort Dodge	SMR	MW10	07/15/99	262	
7LTT94	Jim's Texaco	Fort Dodge	SMR	MW14	07/15/99	<10	
8LTU50	Kum & Go #88	Fort Dodge	Tier 1	MW-12	09/03/99	<1.0	
9LTE32	Former Texaco	Fort Dodge	SMR	MW-2	09/14/99	<15	
7LTQ82	AMPRIDE	Fort Dodge	SMR	MW18	08/13/99	1580	
7LTQ82	AMPRIDE	Fort Dodge	SMR	MW22	08/13/99	867	TAME
7LTQ82	AMPRIDE	Fort Dodge	SMR	MW27	08/13/99	6.2	
7LTQ82	AMPRIDE	Fort Dodge	SMR	MW28	08/13/99	344	TAME
7LTQ67	Sinclair #14010	Fort Madison	SMR	MW-1	07/20/99	<2	
7LTQ67	Sinclair #14010	Fort Madison	SMR	MW-4	07/20/99	5.9	
7LTQ67	Sinclair #14010	Fort Madison	SMR	MW-6	07/20/99	11	
7LTQ67	Sinclair #14010	Fort Madison	SMR	MW-13	07/20/99	<1	
8LTG88	Coastal Mart	Fort Madison	SMR-1999	MW-8	08/18/99	<20	
8LTG88	Coastal Mart	Fort Madison	SMR-1999	MW-18	08/18/99	<2	
8LTG88	Coastal Mart	Fort Madison	SMR-1999	MW-21	08/18/99	<2	
8LTG88	Coastal Mart	Fort Madison	SMR-1999	MW-24	08/18/99	<2	
7LTR98	LARSON SHOE	Fredericksburg	SMR-99	MW-1	08/13/99	<1	
7LTR98	LARSON SHOE	Fredericksburg	SMR-99	MW-2	08/13/99	<5	
7LTR98	LARSON SHOE	Fredericksburg	SMR-99	MW-3	08/13/99	<1	
7LTR98	LARSON SHOE	Fredericksburg	SMR-99	MW-5	08/13/99	<1	
7LTR98	LARSON SHOE	Fredericksburg	SMR-99	MW-7	08/13/99	<1	
7LTR98	LARSON SHOE	Fredericksburg	SMR-99	MW-8	08/13/99	<1	
7LTV22	SE Iowa Ag Center	Freemont	3rd Qtr. SMR	MW-5	8/2/99	<10	
7LTV22	SE Iowa Ag Center	Freemont	3rd Qtr. SMR	MW-8	8/2/99	<4	
7LTV22	SE Iowa Ag Center	Freemont	3rd Qtr. SMR	MW-10	8/2/99	<2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTV22	SE Iowa Ag Center	Freemont	3rd Qtr. SMR	MW-11	8/2/99	<100	
7LTV22	SE Iowa Ag Center	Freemont	3rd Qtr. SMR	MW-15	8/2/99	<2	
7LTV22	SE Iowa Ag Center	Freemont	3rd Qtr. SMR	MW-16	8/2/99	<2	
7LTT57	Galva Union	Galva	Tier 2	EMW-5	08/18/99	<20	
7LTT57	Galva Union	Galva	Tier 2	EMW-6	08/18/99	<20	
7LTT57	Galva Union	Galva	Tier 2	EMW-8	08/19/99	<1.0	
7LTT57	Galva Union	Galva	Tier 2	EMW-9	08/19/99	<50	
7LTT57	Galva Union	Galva	Tier 2	EMW-11	08/18/99	<1.0	
7LTT57	Galva Union	Galva	Tier 2	EMW-12	08/18/99	<1.0	
7LTT57	Galva Union	Galva	Tier 2	EMW-13	08/18/99	<1.0	
7LTT57	Galva Union	Galva	Tier 2	EMW-14	08/18/99	<1.0	
7LTT57	Galva Union	Galva	Tier 2	Duplicate	08/19/99	<1.0	MW-5
8LTM76	Double Circle	Galva	Tier 2	MW-5	08/19/99	<1.0	
8LTM76	Double Circle	Galva	Tier 2	MW-6	08/19/99	<1.0	
8LTM76	Double Circle	Galva	Tier 2	MW-10	08/19/99	<1.0	
8LTM76	Double Circle	Galva	Tier 2	MW-11	08/19/99	<1.0	
8LTM76	Double Circle	Galva	Tier 2	MW-14	08/19/99	<1.0	
7LTP02	Central	Gilman	SMR-99	16-MW	9/23/99	<2	NA
7LTP02	Central	Gilman	SMR-99	17-MW	9/23/99	106	NA
7LTP02	Central	Gilman	SMR-99	19-MW	9/23/99	<200	NA
7LTP02	Central	Gilman	SMR-99	20-MW	9/23/99	<400	NA
7LTP02	Central	Gilman	SMR-99	21-MW	9/23/99	<200	NA
7LTP02	Central	Gilman	SMR-99	23-MW	9/23/99	<2	NA
8LTM70	Gowrie 66	Gowrie	3rd Q SMR	MW-6	07/09/99	<10	
8LTM70	Gowrie 66	Gowrie	3rd Q SMR	MW-7	07/09/99	<20	
8LTM70	Gowrie 66	Gowrie	3rd Q SMR	MW-11	07/09/99	<10	
8LTM70	Gowrie 66	Gowrie	3rd Q SMR	MW-101	07/09/99	<20	
8LTM70	Gowrie 67	Gowrie	3rd Q SMR	MW-102	07/09/99	<10	
8LTV20	P.V. Comm. School	Gowrie	SMR 99	MW-3	07/09/99	<2	
8LTV20	P.V. Comm. School	Gowrie	SMR 99	MW-4	07/09/99	3210	
8LTV20	P.V. Comm. School	Gowrie	SMR 99	MW-5	07/09/99	187	
8LTV20	P.V. Comm. School	Gowrie	SMR 99	MW-7	07/09/99	<2	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTV20	P.V. Comm. School	Gowrie	SMR 99	MW-8	07/09/99	<2	
8LTV20	P.V. Comm. School	Gowrie	SMR 99	MW-12	07/09/99	<2	
8LTK05	PAT'S	Grand Junction	SMR	MW2	09/29/99	<2	
8LTK05	PAT'S	Grand Junction	SMR	MW9	09/29/99	97.7	
8LTK05	PAT'S	Grand Junction	SMR	MW15	09/29/99	3.2	
7LTX38	Don's Texaco	Grand Junction	SMR-99	MW-E	09/27/99	<100	NA
7LTX38	Don's Texaco	Grand Junction	SMR-99	MW-A	09/27/99	<2	NA
7LTX38	Don's Texaco	Grand Junction	SMR-99	B-4	09/27/99	11.5	NA
7LTX38	Don's Texaco	Grand Junction	SMR-99	B-11	09/27/99	<2	NA
7LTX38	Don's Texaco	Grand Junction	SMR-99	B-10	09/27/99	<2	NA
7LTX38	Don's Texaco	Grand Junction	SMR-99	B-12	09/27/99	<2	NA
7LTX38	Don's Texaco	Grand Junction	SMR-99	B-9	09/27/99	15.4	NA
9LTB89	Ferguson Site	Grand Junction	3rd Q SMR	MW-1	07/14/99	<10	
9LTB89	Ferguson Site	Grand Junction	3rd Q SMR	MW-2	07/14/99	<2	
9LTB89	Ferguson Site	Grand Junction	3rd Q SMR	MW-3	07/14/99	<2	
9LTB89	Ferguson Site	Grand Junction	3rd Q SMR	MW-4	07/14/99	<10	
8LTD56	Fr. Short Stop	Granville	SMR	MW-4	09/16/99	<15	
8LTD56	Fr. Short Stop	Granville	SMR	MW-6	09/16/99	<15	
8LTD56	Fr. Short Stop	Granville	SMR	MW-7	09/16/99	<15	
8LTV78	Graettinger Country Store	Greattinger	SMR	MW-3	07/30/99	<15	
8LTV78	Graettinger Country Store	Greattinger	SMR	MW-6	07/30/99	<15	
8LTV78	Graettinger Country Store	Greattinger	SMR	MW-7	07/30/99	<15	
8LTV78	Graettinger Country Store	Greattinger	SMR	MW-8	07/30/99	<15	
8LTS93	G & M Service	Greeley	SMR-99	MW-2	08/23/99	272	
8LTS93	G & M Service	Greeley	SMR-99	MW-3	08/23/99	91.4	
8LTS93	G & M Service	Greeley	SMR-99	MW-8	08/23/99	<2	
8LTS93	G & M Service	Greeley	SMR-99	MW-10	08/23/99	10.4	
8LTS93	G & M Service	Greeley	SMR-99	MW-17	08/23/99	<20	
8LTS93	G & M Service	Greeley	SMR-99	MW-24	08/23/99	<100	
8LTS93	G & M Service	Greeley	SMR-99	Mw-27	08/23/99	283	
8LTS93	G & M Service	Greeley	SMR-99	MW-1	08/23/99	<2	
8LTS93	G & M Service	Greeley	SMR-99	MW-26	08/23/99	<2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTJ07	Rice's Amoco	Greenfield	SMR	MW 5	07/06/99	<1.0	
7LTJ07	Rice's Amoco	Greenfield	SMR	MW 7	07/06/99	<1.0	
8LTG82	Former FINA 9522	Grimes	SMR	MW-4	10/04/99	< 50	
8LTG82	Former FINA 9522	Grimes	SMR	MW-6R	10/04/99	62.5	
8LTG82	Former FINA 9522	Grimes	SMR	MW-12	10/04/99	< 500	
8LTG82	Former FINA 9522	Grimes	SMR	MW-17RR	10/04/99	< 500	
8LTG82	Former FINA 9522	Grimes	SMR	MW-18	10/04/99	< 100	
8LTG82	Former FINA 9522	Grimes	SMR	MW-24	10/04/99	< 10	
7LTJ58	KG#453	Grinnell	SMR	MW 12	07/07/99	<1	
7LTS31	PITA Corporation	Grinnell	99 SMR	DEB-1	07/08/99	<20	
7LTS31	PITA Corporation	Grinnell	99 SMR	DW-1	07/08/99	71.1	
7LTS31	PITA Corporation	Grinnell	99 SMR	DW-7	07/08/99	<20	
9LTH88	GTE	Grinnell	Tier 1	MW-1	08/19/99	<1.0	
9LTH88	GTE	Grinnell	Tier 1	MW-2	08/19/99	<1.0	
9LTH88	GTE	Grinnell	Tier 1	MW-3	08/19/99	<1.0	
7LTH02	Sandbothe Firestone	Griswold	SMR	MW-A	09/09/99	<50	
7LTH02	Sandbothe Firestone	Griswold	SMR	MW-B	09/09/99	<50	
7LTH02	Sandbothe Firestone	Griswold	SMR	MW-1	09/09/99	<1.0	
7LTH02	Sandbothe Firestone	Griswold	SMR	MW-3R	09/09/99	220	
7LTH02	Sandbothe Firestone	Griswold	SMR	MW-9A	09/09/99	<5.0	
7LTH02	Sandbothe Firestone	Griswold	SMR	MW-24	09/09/99	<10	
7LTH02	Sandbothe Firestone	Griswold	SMR	MW-25	09/09/99	<50	
9LTF81	Former Gold Mine Store	Guthrie Center	SMR	MW-1	07/20/99	<1.0	
9LTF81	Former Gold Mine Store	Guthrie Center	SMR	MW-3	07/20/99	14.3	
9LTF81	Former Gold Mine Store	Guthrie Center	SMR	MW-4	07/20/99	8.7	
8LTG08	Central IA FS	Guthrie Center	T2	MW5	09/29/99	1.8	
8LTG08	Central IA FS	Guthrie Center	T2	MW5	09/15/99	6.7	
7LTS54	Butch's	Guttenburg	Tier 2	MW14	10/05/99	5.5	
7LTX71	Reardon Oil	Guttenburg	3rd Q SMR	MW-8	07/14/99	16.3	
7LTX71	Reardon Oil	Guttenburg	3rd Q SMR	MW-13	07/14/99	<2	
7LTX71	Reardon Oil	Guttenburg	3rd Q SMR	MW-14	07/14/99	<2	
7LTX71	Reardon Oil	Guttenburg	3rd Q SMR	MW-15	07/14/99	<100	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTX71	Reardon Oil	Guttenburg	3rd Q SMR	MW-16	07/14/99	<10	
9LTF70	HANSON TIRE	HAMPTON	SMR-1999	MW-8	07/15/99	<1	
8LTK14	Pottawattamie Co.	Hancock	Tier 2	9031-20 (W)	07/13/99	<4	NONE
8LTJ59	Mickel's Rest	Harlan	Tier 1 1999	MW-1	07/14/99	<1.0	
8LTJ59	Mickel's Rest	Harlan	Tier 1 1999	MW-2	07/14/99	<1.0	
8LTJ59	Mickel's Rest	Harlan	Tier 1 1999	MW-3	07/14/99	<1.0	
8LTS48	Former Snider Service Sati Hartley		SMR	MW1	07/29/99	<1.0	
8LTS48	Former Snider Service Sati Hartley		SMR	MW7	08/03/99	<1.0	
8LTS48	Former Snider Service Sati Hartley		SMR	MW8	08/03/99	<1.0	
8LTS48	Former Snider Service Sati Hartley		SMR	MW9	07/29/99	<1.0	
8LTS48	Former Snider Service Sati Hartley		SMR	MW10	07/29/99	<1.0	
8LTS48	Former Snider Service Sati Hartley		SMR	MW11	07/29/99	<1.0	
8LTS48	Former Snider Service Sati Hartley		SMR	MW12	08/03/99	<1.0	
8LTS48	Former Snider Service Sati Hartley		SMR	MW13	08/03/99	<1.0	
9LTD34	Snider's Auto	Hartley	Tier-2	MW-1	09/16/99	<40	
9LTD34	Snider's Auto	Hartley	Tier-2	MW-2	09/16/99	<15	
7LTN77	Cenex Land O' Lakes Forn Hedrick		SMR	MW-2	07/09/99	<1	
7LTN77	Cenex Land O' Lakes Forn Hedrick		SMR	MW-5	07/09/99	<1	
7LTN77	Cenex Land O' Lakes Forn Hedrick		SMR	MW-102	07/09/99	<1	
7LTN77	Cenex Land O' Lakes Forn Hedrick		SMR	MW-201	07/09/99	<1	
7LTN77	Cenex Land O' Lakes Forn Hedrick		SMR	MW-202	07/09/99	8	
7LTN77	Cenex Land O' Lakes Forn Hedrick		SMR	MW301	07/09/99	<10	
8LTH50	Coastal Mart	Hiawatha	SMR-1999	RW-1	09/10/99	171	
8LTH50	Coastal Mart	Hiawatha	SMR-1999	MW-14	09/10/99	<2.	
8LTH50	Coastal Mart	Hiawatha	SMR-1999	MW-12	09/10/99	<2.	
8LTH50	Coastal Mart	Hiawatha	SMR-1999	MW-11R	09/10/99	1150	
8LTH50	Coastal Mart	Hiawatha	SMR-1999	MW-15	09/10/99	7.9	
8LTH50	Coastal Mart	Hiawatha	SMR-1999	MW-16	09/10/99	<4	
7LTX59	IDA Co. Shed	Holstein	1999	MW-101	08/03/99	<1	
9LTA28	Swiss Valley Farms	Hopkinton	SMR	MW3	08/31/99	<1.0	
9LTA28	Swiss Valley Farms	Hopkinton	SMR	MW9	08/31/99	<10	
7LTB06	Former FINA 9525	Hull	Tier 2	MW-1R	09/23/99	0.0318	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTB06	Former FINA 9525	Hull	Tier 2	MW-5	09/23/99	<0.020	
7LTB06	Former FINA 9525	Hull	Tier 2	MW-6	09/23/99	0.0123	
7LTB06	Former FINA 9525	Hull	Tier 2	MW-8	09/23/99	<0.020	
7LTB06	Former FINA 9525	Hull	Tier 2	MW-9	09/23/99	<0.020	
7LTB06	Former FINA 9525	Hull	Tier 2	MW-10	09/23/99	<0.020	
7LTB06	Former FINA 9525	Hull	Tier 2	MW-15	09/23/99	<0.020	
7LTU85	Pronto Mart	Humboldt	SMR	MW-2	09/15/99	<15	
7LTU85	Pronto Mart	Humboldt	SMR	MW-7	09/15/99	<15	
7LTU85	Pronto Mart	Humboldt	SMR	MW-14	09/15/99	<15	
7LTU85	Pronto Mart	Humboldt	SMR	MW-15	09/15/99	<15	
7LTU85	Pronto Mart	Humboldt	SMR	MW-16	09/15/99	<40	
7LTU85	Pronto Mart	Humboldt	SMR	MW-17	09/15/99	<15	
7LTU85	Pronto Mart	Humboldt	SMR	MW-18	09/15/99	<15	
8LTA75	Casey's/Rupp	Ida Grove	SMR	WMW-22	09/08/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	RW-8	09/09/99	<100	
8LTA75	Casey's/Rupp	Ida Grove	SMR	M-3	09/09/99	<200	
8LTA75	Casey's/Rupp	Ida Grove	SMR	RW-9	09/09/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-14	09/09/99	2.7	
8LTA75	Casey's/Rupp	Ida Grove	SMR	RW-14	09/09/99	11.9	
8LTA75	Casey's/Rupp	Ida Grove	SMR	(AW-1)RW-1	09/09/99	15.4	
8LTA75	Casey's/Rupp	Ida Grove	SMR	RW-10	09/09/99	<40	
8LTA75	Casey's/Rupp	Ida Grove	SMR	RW-6	09/09/99	<200	
8LTA75	Casey's/Rupp	Ida Grove	SMR	RW-17	09/09/99	<200	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-13	09/09/99	<200	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-17	09/09/99	<200	
8LTA75	Casey's/Rupp	Ida Grove	SMR	(AW-2)MW-1	09/09/99	26	
8LTA75	Casey's/Rupp	Ida Grove	SMR	(Add10)BH-6	09/09/99	<50	
8LTA75	Casey's/Rupp	Ida Grove	SMR	(SP-1) BH-5	09/09/99	<200	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-18	09/09/99	60.9	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-19	09/09/99	<200	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-6	09/09/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-15	09/09/99	61.4	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-16	09/09/99	12.9	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-4	09/09/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	(AW-3)MW-4	09/09/99	<10	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-12	09/09/99	<40	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-1	09/09/99	<200	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-2	09/09/99	<200	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-8	09/09/99	23.7	
8LTA75	Casey's/Rupp	Ida Grove	SMR	RW-11	09/09/99	207	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CDW-10	09/09/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CIW-10	09/09/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-10	09/09/99	6.3	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-11	09/09/99	<20	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-9	09/09/99	<20	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-20	09/09/99	9.6	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-21	09/09/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	MW-23	09/09/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CMW-15	09/09/99	15	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CDW-15	09/09/99	4.8	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CIW-7	09/09/99	5.5	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CMW-7	09/09/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CDW-7	09/09/99	<2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CMW-16	09/10/99	13.3	
8LTA75	Casey's/Rupp	Ida Grove	SMR	(AW-4)CMW	09/10/99	14.4	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CIW-16	09/10/99	29.2	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CDW-16	09/10/99	3.7	
8LTA75	Casey's/Rupp	Ida Grove	SMR	CMW-18	09/10/99	<20	Sampled for Alice's
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WMW-19	09/08/99	1980	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WMW-21	09/08/99	2960	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WMW-2	09/08/99	758	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	CMW-13	09/08/99	<200	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WMW-1	09/08/99	2860	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WMW-3	09/08/99	<2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WMW-16	09/08/99	410	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	CDW-4	09/08/99	<2	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	CWM-4	09/08/99	<2	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	CIW-4	09/08/99	<2	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	CMW-12	09/08/99	<2	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	CDW-12	09/08/99	2.6	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	CAW-12	09/08/99	2.9	Duplicate of CDW-12
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WMW-13	09/08/99	<2	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	CIW-12	09/08/99	<2	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WIW-13	09/08/99	<2	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	CAW-13	09/08/99	<2	Duplicate of WIW-13
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WDW-13	09/08/99	<2	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WMW-14	09/08/99	<200	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	WMW-22	09/08/99	<2	
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	RW-8	09/09/99	<100	Sampled for Rupp
8LTZ58	Wunschel Oil Co.	Ida Grove	SMR	M-3	09/09/99	<200	Services, 7LTB86
9LTE96	Alice's Antiques	Ida Grove	SMR	CMW-18	09/10/99	<20	
9LTE96	Alice's Antiques	Ida Grove	SMR	CIW-18	09/10/99	<2	
9LTE96	Alice's Antiques	Ida Grove	SMR	CDW-18	09/10/99	<2	
9LTE96	Alice's Antiques	Ida Grove	SMR	AMW-4	09/10/99	<2	
9LTE96	Alice's Antiques	Ida Grove	SMR	AMW-1	09/10/99	<200	
9LTE96	Alice's Antiques	Ida Grove	SMR	ADD-12B	09/10/99	<400	
9LTE96	Alice's Antiques	Ida Grove	SMR	AMW-2	09/10/99	<200	
9LTE96	Alice's Antiques	Ida Grove	SMR	CIW-16	09/10/99	29.2	Sampled for Casey/
9LTE96	Alice's Antiques	Ida Grove	SMR	CDW-16	09/10/99	3.7	Rupp sites ( 8LTA75)
8LTD16	IOCO Express Mart	Independence	SMR	MW-8	09/09/99	<75	
8LTD16	IOCO Express Mart	Independence	SMR	MW-10	09/09/99	<60	
8LTD16	IOCO Express Mart	Independence	SMR	MW-14	09/09/99	<15	
7LTE40	Dell Oil	Indianola	SMR	MW 4	09/30/99	66.4	
7LTE40	Dell Oil	Indianola	SMR	MW 5	09/30/99	795	
7LTE40	Dell Oil	Indianola	SMR	MW 214	09/30/99	11.8	
8LTG46	Medora Store	Indianola	Tier 2	BH4/MW2	08/13/99	50.6	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTG46	Medora Store	Indianola	Tier 2	BH8/MW5	08/13/99	<1.0	
8LTG46	Medora Store	Indianola	Tier 2	BH10/MW6	08/13/99	<5.0	
8LTG46	Medora Store	Indianola	Tier 2	BH11/MW7	08/13/99	<1.0	
8LTG46	Medora Store	Indianola	Tier 2	BH12/MW8	08/13/99	<1.0	
8LTG46	Medora Store	Indianola	Tier 2	BH13/MW9	08/27/99	<1.0	
8LTG46	Medora Store	Indianola	Tier 2	BH14/MW10	09/03/99	<1.0	
8LTM06	City Maintenance Garage	Indianola	SMR	MW-216	10/22/99	141	
8LTM06	City Maintenance Garage	Indianola	SMR	MW-214	10/22/99	<100	
8LTM06	City Maintenance Garage	Indianola	SMR	MW-221	10/22/99	<1	
8LTM06	City Maintenance Garage	Indianola	SMR	MW-8	10/22/99	2.94	
8LTM06	City Maintenance Garage	Indianola	SMR	MW-9	10/22/99	<1	
8LTM06	City Maintenance Garage	Indianola	SMR	MW-215	10/22/99	<10	
7LTH36	West Lyon Coop	Inwood	SMR	MW-1	07/26/99	50	
7LTH36	West Lyon Coop	Inwood	SMR	MW-5	07/26/99	<15	
7LTH36	West Lyon Coop	Inwood	SMR	MW-8	07/26/99	54	
7LTC46	NKA Delimart (Former Wal	Iowa City	SMR	MW-2	08/11/99	<1.0	
7LTC46	NKA Delimart (Former Wal	Iowa City	SMR	MW-5	08/11/99	316	
7LTC46	NKA Delimart (Former Wal	Iowa City	SMR	MW-6	08/11/99	84	
7LTC46	NKA Delimart (Former Wal	Iowa City	SMR	MW-18	08/11/99	5.7	
7LTC46	NKA Delimart (Former Wal	Iowa City	SMR	MW-21	08/11/99	<1	
7LTK87	City of Iowa City Shop	Iowa City	SMR	MW20	08/02/99	<1.0	
7LTK87	City of Iowa City Shop	Iowa City	SMR	MW21	08/02/99	<1.0	
7LTK87	City of Iowa City Shop	Iowa City	SMR	MW22	08/02/99	7.8	
7LTQ98	Quik Trip #503	Iowa City	2nd Qtr SMR	MW-3	07/08/99	<2	
7LTQ98	Quik Trip #503	Iowa City	2nd Qtr SMR	MW-5	07/08/99	<200	
7LTQ98	Quik Trip #503	Iowa City	2nd Qtr SMR	MW-8	07/08/99	12.6	
7LTQ98	Quik Trip #503	Iowa City	2nd Qtr SMR	MW-15	07/08/99	<2	
8LTI74	Johnson County	Iowa City	Tier2	MW2	09/02/99	149	
8LTI74	Johnson County	Iowa City	Tier2	MW8	09/02/99	38	
8LTI74	Johnson County	Iowa City	Tier2	MW3	09/02/99	33.4	
8ltx15	KG#104	Iowa City	SMR	EMW	07/28/99	<100	
8ltx15	KG#104	Iowa City	SMR	MW2	07/28/99	<5	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8ltx15	KG#104	Iowa City	SMR	MW5	07/28/99	<1	
8ltx15	KG#104	Iowa City	SMR	MW10	07/28/99	<50	
8ltx15	KG#104	Iowa City	SMR	MW12	07/28/99	<1	
8ltx15	KG#104	Iowa City	SMR	MW15	07/28/99	<1	
8ltx15	KG#104	Iowa City	SMR	MW16	07/28/99	<1	
8ltx15	KG#104	Iowa City	SMR	MW18	07/28/99	<1	
8ltx15	KG#104	Iowa City	SMR	MW21	07/28/99	<1	
8ltx15	KG#104	Iowa City	SMR	MW22	07/28/99	<1	
8ltx15	KG#104	Iowa City	SMR	MW26	07/28/99	<1	
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-4	07/31/99	<2	NA
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-5	07/31/99	<2	NA
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-10	08/11/99	<2	NA
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-11	08/11/99	<2	NA
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-A	08/11/99	<2	NA
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-4	07/31/99	<2	NA
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-5	07/31/99	<2	NA
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-10	08/11/99	<2	NA
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-11	08/11/99	<2	NA
8LTE22	Former Westside	Iowa Falls	Tier-2	MW-A	08/11/99	<2	NA
8LTX35	KG#132	Iowa Falls	SMR	MW8	08/30/99	72.5	
8LTX35	KG#132	Iowa Falls	SMR	MW11	08/30/99	<5	
8LTX35	KG#132	Iowa Falls	SMR	MW2	08/30/99	71.5	
7LTB24	Sinkey Garage	Ireton	SMR	MW-11	09/29/99	6100	
7LTB24	Sinkey Garage	Ireton	SMR	MW-1	09/29/99	11.6	
7LTB24	Sinkey Garage	Ireton	SMR	MW-2	09/29/99	214	
7LTB24	Sinkey Garage	Ireton	SMR	MW-6	09/29/99	247	
7LTB24	Sinkey Garage	Ireton	SMR	MW-8	09/29/99	196	
7LTB24	Sinkey Garage	Ireton	SMR	MW-9	09/29/99	2.4	
7LTB24	Sinkey Garage	Ireton	SMR	MW-10	09/29/99	22.5	
8LTC39	Petersen Grain	Jacksonville	99 smr	MW-1	8/24/99	<2	
8LTC39	Petersen Grain	Jacksonville	99 smr	MW-4	8/24/99	7.2	
8LTC39	Petersen Grain	Jacksonville	99 smr	MW-5	8/24/99	<2	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTC39	Petersen Grain	Jacksonville	99 smr	MW-8	8/24/99	<2	
8LTC39	Petersen Grain	Jacksonville	99 smr	MW-11	8/24/99	<40	
8LTC39	Petersen Grain	Jacksonville	99 smr	MW-16	8/24/99	<20	
8LTC39	Petersen Grain	Jacksonville	99 smr	MW-17	8/24/99	<2	
7LTO95	caseys store	Jewell	Tier 2	MW3	07/13/99	86.1	
7LTO95	caseys store	Jewell	Tier 2	MW8	10/27/99	180	
7LTO95	caseys store	Jewell	Tier 2	MW-13	10/27/99	6.4	
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-1(W)	07/15/99	<4	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-2(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-4(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-5(W)	07/15/99	<10	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-6(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-7(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-8(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-9(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-10(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-12(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-13(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-14(W)	07/15/99	<2	NONE
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-15(W)	07/15/99	<2	NONE
7LTL79	Kalona Oil	Kalona	SMR-99	MW-4	08/10/99	<10	
7LTL79	Kalona Oil	Kalona	SMR-99	MW-6	08/10/99	<200	
7LTL79	Kalona Oil	Kalona	SMR-99	MW-22	08/10/99	<10	
7LTJ94	UNITED CO-OP	KAMRAR	SMR	1MW	08/13/99	771	
7LTJ94	UNITED CO-OP	KAMRAR	SMR	3MW	08/13/99	<20	
7LTJ94	UNITED CO-OP	KAMRAR	SMR	20MW	08/13/99	20.3	
7LTJ94	UNITED CO-OP	KAMRAR	SMR	33MW	08/13/99	6900	
7LTF92	BIDDY'S SINCLAIR	KEOKUK	PRE RBCA SMR	MW-3	08/03/99	335	
7LTF92	BIDDY'S SINCLAIR	KEOKUK	PRE RBCA SMR	MW-4	08/03/99	72.7	
7LTF92	BIDDY'S SINCLAIR	KEOKUK	PRE RBCA SMR	MW-6	08/03/99	58.2	
7LTF92	BIDDY'S SINCLAIR	KEOKUK	PRE RBCA SMR	MW-7	08/03/99	499	
7LTF92	BIDDY'S SINCLAIR	KEOKUK	PRE RBCA SMR	MW-23	08/31/99	49	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTG90	Frmr Coastal	Keokuk	Tier 2	MW-17	08/04/99	1140	
9LTD39	Anthony Wells Property	Keokuk	Tier 1	MW-2	10/21/99	<1	
9LTD39	Anthony Wells Property	Keokuk	Tier 1	MW-3	10/21/99	<1	
7LTH35	Hagan's	Kingsley	SMR	MW-3	10/07/99	<15	
7LTH35	Hagan's	Kingsley	SMR	MW-6	10/07/99	<110	
7LTH35	Hagan's	Kingsley	SMR	MW-8	10/07/99	144	
7LTH35	Hagan's	Kingsley	SMR	MW-9	10/07/99	<40	
7LTH35	Hagan's	Kingsley	SMR	MW-10	10/07/99	144	
7LTH35	Hagan's	Kingsley	SMR	MW-13	10/07/99	<15	
7LTH35	Hagan's	Kingsley	SMR	MW-14	10/07/99	<15	
7LTH35	Hagan's	Kingsley	SMR	MW-15	09/13/99	<40	
7LTB95	Townmart Store	Klemme	SMR	MW-1	09/15/99	<40	
7LTB95	Townmart Store	Klemme	SMR	MW-2	09/15/99	<15	
7LTB95	Townmart Store	Klemme	SMR	MW-3	09/15/99	<40	
7LTB95	Townmart Store	Klemme	SMR	MW-4	09/15/99	<15	
7LTB95	Townmart Store	Klemme	SMR	MW-5	09/15/99	<15	
7LTB95	Townmart Store	Klemme	SMR	MW-8	09/15/99	2104	
7LTB95	Townmart Store	Klemme	SMR	MW-9	09/15/99	12	
7LTB95	Townmart Store	Klemme	SMR	MW-10	09/15/99	2600	
7LTB95	Townmart Store	Klemme	SMR	MW-11	09/15/99	2633	
7LTB95	Townmart Store	Klemme	SMR	MW-12	09/15/99	302	
7LTB95	Townmart Store	Klemme	SMR	MW-17	09/15/99	<15	
7LTB95	Townmart Store	Klemme	SMR	MW-18	09/15/99	131	
7LTB95	Townmart Store	Klemme	SMR	MW-19	09/15/99	<15	
7LTB95	Townmart Store	Klemme	SMR	MW-20	09/15/99	4327	
7LTB95	Townmart Store	Klemme	SMR	MW-21	09/15/99	<b>21826</b>	
8LTA19	Ladora Stora	Ladora	Tier 2	B-8	09/01/99	<15	
8LTA19	Ladora Stora	Ladora	Tier 2	B-20	09/01/99	<15	
8LTA19	Ladora Stora	Ladora	Tier 2	B-23	09/01/99	<15	
8LTA19	Ladora Stora	Ladora	Tier 2	B-30	09/01/99	<15	
8LTB49	Lake View County Store	Lake View	SMR	MW-2	07/06/99	<1.0	
8LTB49	Lake View County Store	Lake View	SMR	MW-6A	07/06/99	<1.0	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTB49	Lake View County Store	Lake View	SMR	MW-7	07/06/99	<1.0	
8LTH70	Clasen's 76	LaMotte	SMR	MW2	08/27/99	<10	
8LTH70	Clasen's 76	LaMotte	SMR	MW3	08/27/99	49	
8LTH70	Clasen's 76	LaMotte	SMR	MW9	08/27/99	792	
7LTT88	Former West Lyon Coop	Larchwood	Tier 2	MW-1	09/16/99	<15	
7LTT88	Former West Lyon Coop	Larchwood	Tier 2	MW-4	09/16/99	<15	
8LTR14	Cherokee Co. Maint. Garaç Larrabee		Tier 1	MW-1	09/08/99	<2	ETBE, TAME, DIPE, TBA
8LTR14	Cherokee Co. Maint. Garaç Larrabee		Tier 1	MW-2	09/08/99	<2	ETBE, TAME, DIPE, TBA
8LTR14	Cherokee Co. Maint. Garaç Larrabee		Tier 1	MW-4	09/08/99	<2	ETBE, TAME, DIPE, TBA
8LTR14	Cherokee Co. Maint. Garaç Larrabee		Tier 1	MW-5	09/08/99	<2	ETBE, TAME, DIPE, TBA
7LTP79	Richardson Svc	Laurens	T1	MW1	08/11/99	<1	
7LTP79	Richardson Svc	Laurens	T1	MW2	08/11/99	<1	
7LTP79	Richardson Svc	Laurens	T1	MW3	08/11/99	<1	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-1	07/01/99	1400	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-2	07/01/99	426	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-3	07/01/99	<1	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-4	07/01/99	<1	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-5	07/01/99	<10	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-6	07/01/99	<1	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-7	07/01/99	704	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-8	07/01/99	26.2	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-10	07/01/99	<1	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-12	07/01/99	359	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-13	07/01/99	<20	
9LTG69	Meis Feed & Seed / Le Ma LeMars		SMR	MW-18	07/01/99	215	
8LTD63	LeMars Truck Stop	LeMars	Tier 2	MW-6	07/20/99	<15	
8LTD63	LeMars Truck Stop	LeMars	Tier 2	MW-9	07/20/99	<100	
8LTD63	LeMars Truck Stop	LeMars	Tier 2	MW-11	07/20/99	<15	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTD63	LeMars Truck Stop	LeMars	Tier 2	MW-15	07/20/99	<15	
8LTI09	LeMars Airport	LeMars	Tier 2	MW-1	08/18/99	<15	
8LTI09	LeMars Airport	LeMars	Tier 2	MW-2	08/18/99	<15	
8LTI09	LeMars Airport	LeMars	Tier 2	MW-3	08/18/99	<15	
8LTI09	LeMars Airport	LeMars	Tier 2	MW-5	08/18/99	<15	
8LTI09	LeMars Airport	LeMars	Tier 2	MW-8	08/18/99	<15	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-1	07/21/99	<40	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-7	07/21/99	<15	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-8	07/21/99	<40	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-9	07/21/99	<20	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-11	07/21/99	<40	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-12	07/21/99	<15	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-13	07/21/99	<40	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-14	07/21/99	<20	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-15	07/21/99	<40	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-18	07/21/99	<20	
8LTI76	Fr. Fuel N More	LeMars	SMR	MW-19	07/21/99	<15	
8LTI76	Fr. Fuel N More	LeMars	SMR	SMW#1	07/21/99	<40	
8LTI76	Fr. Fuel N More	LeMars	SMR	SMW#3	07/21/99	<40	
8LTI76	Fr. Fuel N More	LeMars	SMR	SMW#4	07/21/99	<20	
8LTI76	Fr. Fuel N More	LeMars	SMR	SMW#5	07/21/99	<40	
8LTI76	Fr. Fuel N More	LeMars	SMR	LD-1	07/21/99	<15	
8LTI76	Fr. Fuel N More	LeMars	SMR	LD-2	07/21/99	<20	
8LTN21	Wells Dairy	LeMars	SMR	MW-3	08/02/99	<15	
8LTN21	Wells Dairy	LeMars	SMR	MW-5	08/02/99	<15	
8LTN21	Wells Dairy	LeMars	SMR	MW-7	08/02/99	<40	
8LTN21	Wells Dairy	LeMars	SMR	MW-8	08/02/99	<15	
8LTN21	Wells Dairy	LeMars	SMR	MW-9	08/02/99	<15	
8LTN21	Wells Dairy	LeMars	SMR	MW-11	08/02/99	<40	
8LTN21	Wells Dairy	LeMars	SMR	MW-12	08/02/99	<40	
8LTN21	Wells Dairy	LeMars	SMR	MW-16	08/02/99	<15	
8LTN21	Wells Dairy	LeMars	SMR	MW-18	08/02/99	<20	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTN21	Wells Dairy	LeMars	SMR	MW-28	08/02/99	13	
8LTN21	Wells Dairy	LeMars	SMR	MW-29	08/02/99	3	
8LTO03	Fr. Jerry's Place	LeMars	Tier 2	MW-4	07/20/99	<40	
8LTO03	Fr. Jerry's Place	LeMars	Tier 2	MW-6	07/20/99	<20	
8LTO03	Fr. Jerry's Place	LeMars	Tier 2	MW-8	07/20/99	<20	
8LTO03	Fr. Jerry's Place	LeMars	Tier 2	MW-10	07/20/99	<20	
8LTO03	Fr. Jerry's Place	LeMars	Tier 2	MW-14	07/20/99	<15	
8LTO03	Fr. Jerry's Place	LeMars	Tier 2	MW-15	07/20/99	<15	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-9	07/20/99	< 40.0	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-5	07/22/99	< 1.0	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-6	07/22/99	< 1.0	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-7	07/22/99	< 1.0	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-8	07/21/99	< 1.0	
7LTS14	Smith Oil - Korner Store	Livermore	3rd Q SMR	MW-3	07/15/99	1060	
7LTS14	Smith Oil - Korner Store	Livermore	3rd Q SMR	MW-4	07/15/99	<2	
7LTS14	Smith Oil - Korner Store	Livermore	3rd Q SMR	MW-7	07/15/99	<2	
7LTS14	Smith Oil - Korner Store	Livermore	3rd Q SMR	MW-100	07/15/99	3110	
7LTS14	Smith Oil - Korner Store	Livermore	3rd Q SMR	MW-101	07/15/99	983	
8LTH18	Seely Oil Company	Logan	Tier 2	MW-12	07/07/99	<1	
8LTH18	Seely Oil Company	Logan	Tier 2	MW-9	08/30/99	<1	
8LTH18	Seely Oil Company	Logan	Tier 2	MW-10	08/30/99	3.29	
8LTH18	Seely Oil Company	Logan	Tier 2	MW-11	08/30/99	<1	
7LTK96	United Coop	Luana	3rd Q SMR	MW-3	08/11/99	<200	
7LTK96	United Coop	Luana	3rd Q SMR	MW-6	08/11/99	25.9	
7LTK96	United Coop	Luana	3rd Q SMR	MW-9	08/11/99	<200	
7LTK96	United Coop	Luana	3rd Q SMR	MW-14	08/11/99	<2	
8LTP40	Former Conoco Service St	Lucas	1999 SMR	MW1	09/16/99	15.6	
8LTP40	Former Conoco Service St	Lucas	1999 SMR	MW5	09/16/99	<1	
8LTP40	Former Conoco Service St	Lucas	1999 SMR	MW6	09/16/99	<1	
8LTP40	Former Conoco Service St	Lucas	1999 SMR	MW9	09/16/99	1.2	
8LTP40	Former Conoco Service St	Lucas	1999 SMR	MW1	09/16/99	15.6	
8LTP40	Former Conoco Service St	Lucas	1999 SMR	MW5	09/16/99	<1	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTP40	Former Conoco Service St.	Lucas	1999 SMR	MW6	09/16/99	<1	
8LTP40	Former Conoco Service St.	Lucas	1999 SMR	MW9	09/16/99	1.2	
7LTU91	Mallard Store	Mallard	1999	MW-6	07/06/99	<1	
7LTU91	Mallard Store	Mallard	1999	MW-7	07/06/99	<1	
7LTU91	Mallard Store	Mallard	1999	MW-8	07/06/99	<1	
7LTU91	Mallard Store	Mallard	1999	MW-11	07/06/99	<1	
7LTH58	Hawkeye Diesel	Manning	3rd Q SMR	MW-2	07/20/99	2.4	
7LTH58	Hawkeye Diesel	Manning	3rd Q SMR	MW-5	07/20/99	<2	
7LTH58	Hawkeye Diesel	Manning	3rd Q SMR	MW-6	07/20/99	2.3	
7LTH58	Hawkeye Diesel	Manning	3rd Q SMR	MW-8	07/20/99	<2	
8LTI34	Hawkeye Diesel	Manning	3rd Q SMR	MW-11	07/20/99	<2	
8LTI34	Hawkeye Diesel	Manning	3rd Q SMR	MW-13	07/20/99	<20	
8LTI34	Hawkeye Diesel	Manning	3rd Q SMR	MW-16	07/20/99	<2	
8LTX77	Aspinwall Coop	Manning	pre-RBCA SMR	B-3	07/16/99	<1	
8LTX77	Aspinwall Coop	Manning	pre-RBCA SMR	B-4	07/16/99	<1	
8LTX77	Aspinwall Coop	Manning	pre-RBCA SMR	B-5	07/16/99	7	
8LTX77	Aspinwall Coop	Manning	pre-RBCA SMR	MW-X	07/16/99	<1	
8LTX77	Aspinwall Coop	Manning	pre-RBCA SMR	MW-17	07/16/99	<1	
7LTA80	Manson Bus Barn	Manson	99 SMR	EMW	07/12/99	185	
7LTA80	Manson Bus Barn	Manson	99 SMR	MW-1	07/12/99	720	
7LTA80	Manson Bus Barn	Manson	99 SMR	MW-9	07/12/99	1100	
7LTA80	Manson Bus Barn	Manson	99 SMR	MW-101	07/12/99	44.5	
7LTH50	IDOT Maquoketa	Maquoketa	SMR	2-MW	08/09/99	<1.0	
7LTH50	IDOT Maquoketa	Maquoketa	SMR	5-MW	08/09/99	<1.0	
7LTH50	IDOT Maquoketa	Maquoketa	SMR	MW-15	08/09/99	<1.0	
9LTB05	Reichling Oil	Maquoketa	3rd Q SMR	MW-2	08/24/99	<200	
9LTB05	Reichling Oil	Maquoketa	3rd Q SMR	MW-5	08/24/99	<200	
9LTB05	Reichling Oil	Maquoketa	3rd Q SMR	SS-1	08/24/99	<2	
8LTF43	First Cooperative	Marcus	Tier 1	MW-3	08/05/99	113	
8LTF43	First Cooperative	Marcus	Tier 1	MW-8	08/05/99	428	
8LTF43	First Cooperative	Marcus	Tier 1	MW-11	08/05/99	<15	
8LTF43	First Cooperative	Marcus	Tier 1	MW-14	08/05/99	<15	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTC55	QuikTrip #504	Marion	SMR	MW-1	08/27/99	<100	
7LTC55	QuikTrip #504	Marion	SMR	MW-2	08/27/99	76.5	
7LTC55	QuikTrip #504	Marion	SMR	MW-3	08/27/99	128	
7LTC55	QuikTrip #504	Marion	SMR	MW-21	08/27/99	8.4	
7LTC55	QuikTrip #504	Marion	SMR	MW-34	08/27/99	<2	
7LTJ99	Sony's Wrecker	Marion	revised T2	MW6	07/06/99	<5.0	
8LTX55	Mufflers & More	Marion	Tier 1 report	MW-5	08/03/99	<15	
7LTK08	Larry's Service	Marshalltown	3rd Q SMR	MW-3	07/21/99	<200	
7LTK08	Larry's Service	Marshalltown	3rd Q SMR	MW-106	07/21/99	<200	
7LTK08	Larry's Service	Marshalltown	3rd Q SMR	MW-107	07/21/99	<10	
7LTK08	Larry's Service	Marshalltown	3rd Q SMR	MW-111	07/21/99	<100	
7LTK08	Larry's Service	Marshalltown	3rd Q SMR	MW-122	07/21/99	<20	
7LTK08	Larry's Service	Marshalltown	3rd Q SMR	MW-127	07/21/99	1220	
7LTK08	Larry's Service	Marshalltown	3rd Q SMR	MW-128	07/21/99	<2	
7LTN21	Kum & Go #703	Marshalltown	SMR	MW 1	09/20/99	<5.0	
7LTN21	Kum & Go #703	Marshalltown	SMR	MW 4	09/20/99	<200	
7LTN21	Kum & Go #703	Marshalltown	SMR	MW 5	09/20/99	9.3	
7LTN21	Kum & Go #703	Marshalltown	SMR	MW 12	09/20/99	<1000	
7LTN21	Kum & Go #703	Marshalltown	SMR	MW 15	09/20/99	18	
7LTN21	Kum & Go #703	Marshalltown	SMR	MW 17	09/20/99	5.1	
7LTN21	Kum & Go #703	Marshalltown	SMR	MW 18	09/20/99	60	
7LTN22	KG#701	Marshalltown	SMR	MW3	07/27/99	<20	
7LTN22	KG#701	Marshalltown	SMR	MW4	07/06/99	34.8	
8LTA44	Street Garage	Marshalltown	3rd Q SMR	MW-201	07/29/99	<2	
8LTA44	Street Garage	Marshalltown	3rd Q SMR	MW-203	07/29/99	<2	
8LTA44	Street Garage	Marshalltown	3rd Q SMR	MW-206	07/29/99	<40	
8LTA44	Street Garage	Marshalltown	3rd Q SMR	MW-207	07/29/99	<2	
8LTA44	Street Garage	Marshalltown	3rd Q SMR	MW-208	07/29/99	<2	
8LTE85	Anderson Distributing	Marshalltown	3rd Q SMR	MW-1	07/23/99	<20	
8LTE85	Anderson Distributing	Marshalltown	3rd Q SMR	MW-2	07/23/99	<2	
8LTE85	Anderson Distributing	Marshalltown	3rd Q SMR	MW-204	07/23/99	170	
8LTE85	Anderson Distributing	Marshalltown	3rd Q SMR	MW-212	07/23/99	171	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTE85	Anderson Distributing	Marshalltown	3rd Q SMR	MW-215	07/23/99	497	
8LTE85	Anderson Distributing	Marshalltown	3rd Q SMR	MW-216	07/23/99	527	
8LTE85	Anderson Distributing	Marshalltown	3rd Q SMR	MW-227	07/23/99	450	
8LTE85	Anderson Distributing	Marshalltown	3rd Q SMR	MW-228	07/23/99	28.8	
8LTE86	Former FINA 9530	Marshalltown	SMR	MW-6	09/30/99	< 100	
8LTE86	Former FINA 9530	Marshalltown	SMR	MW-7	09/30/99	< 1000	
8LTE86	Former FINA 9530	Marshalltown	SMR	MW-8	09/30/99	< 10	
8LTE86	Former FINA 9530	Marshalltown	SMR	MW-9	09/30/99	< 10	
8LTE86	Former FINA 9530	Marshalltown	SMR	MW-11	09/30/99	< 10	
8LTE86	Former FINA 9530	Marshalltown	SMR	MW-13	09/30/99	< 10	
8LTM02	Marshalltown School	Marshalltown	SMR 99	EMW-2	07/21/99	<40	
8LTM02	Marshalltown School	Marshalltown	SMR 99	EMW-3	07/21/99	<200	
8LTM02	Marshalltown School	Marshalltown	SMR 99	MW-108	07/21/99	<2	
8LTM02	Marshalltown School	Marshalltown	SMR 99	3MW	07/21/99	338	
8LTM03	Marshalltown Bus Barn	Marshalltown	3rd Q SMR	MW-1	07/23/99	41.6	
8LTM03	Marshalltown Bus Barn	Marshalltown	3rd Q SMR	MW-205	07/23/99	<2	
8LTM03	Marshalltown Bus Barn	Marshalltown	3rd Q SMR	MW-206	07/23/99	13.9	
8LTM03	Marshalltown Bus Barn	Marshalltown	3rd Q SMR	MW-208	07/23/99	<2	
8LTM03	Marshalltown Bus Barn	Marshalltown	3rd Q SMR	MW-210	07/23/99	76.7	
8LTM03	Marshalltown Bus Barn	Marshalltown	3rd Q SMR	MW-215	07/23/99	4.6	
8LTM03	Marshalltown Bus Barn	Marshalltown	3rd Q SMR	MW-220	07/23/99	<2	
7LTT55	Wareco #441	Marshalltown	SMR	MW-3	08/25/99	57.4	
7LTM88	Wareco 443	Mason City	SMR	MW-2	08/27/99	8.7	
7LTM88	Wareco 443	Mason City	SMR	MW-7	08/27/99	88.8	
7LTP76	ROOF OIL	Mason City	SMR - 1999	MW-1	07/15/99	<1	
7LTP76	ROOF OIL	Mason City	SMR - 1999	MW-2	07/15/99	<1	
7LTP76	ROOF OIL	Mason City	SMR - 1999	MW-3	07/15/99	<10	interferences
7LTP76	ROOF OIL	Mason City	SMR - 1999	MW-4	07/15/99	<1	
7LTP76	ROOF OIL	Mason City	SMR - 1999	MW-7	07/15/99	<1	
7LTP76	ROOF OIL	Mason City	SMR - 1999	MW-10	07/15/99	<1	
7LTP76	ROOF OIL	Mason City	SMR - 1999	MW-11	07/15/99	<1	
7LTP76	ROOF OIL	Mason City	SMR - 1999	MW-12	07/15/99	3.2	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTP76	ROOF OIL	Mason City	SMR - 1999	MW-13	07/15/99	<1	
8LTF65	Coastal Mart	Mason City	SMR-1999	MW-5	09/23/99	28.3	ETBE and TBA detected
8LTF65	Coastal Mart	Mason City	SMR-1999	MW-7	09/23/99	<40	ETBE detected
8LTF65	Coastal Mart	Mason City	SMR-1999	MW-9	09/23/99	<2	
8LTF65	Coastal Mart	Mason City	SMR-1999	MW-9A	09/23/99	<2	
8LTF65	Coastal Mart	Mason City	SMR-1999	MW-12	09/23/99	<2	
8LTF65	Coastal Mart	Mason City	SMR-1999	MW-18	09/23/99	<2	
8LTF81	Specialty Car	Mason City	SMR 99	MW-1	09/11/99	25.8	NA
8LTF81	Specialty Car	Mason City	SMR 99	MW-2	09/11/99	26	NA
8LTF81	Specialty Car	Mason City	SMR 99	MW-4	09/11/99	24.4	NA
8LTF81	Specialty Car	Mason City	SMR 99	MW-5	09/11/99	28.3	NA
8LTF81	Specialty Car	Mason City	SMR 99	MW-12	09/11/99	<2	NA
8LTU94	Sherman's DX	Mason City	SMR	MW 1	07/14/99	439	
8LTU94	Sherman's DX	Mason City	SMR	MW 3	07/14/99	<1.0	
8LTU94	Sherman's DX	Mason City	SMR	MW 7	07/14/99	<1.0	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-204	09/22/99	<100	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-205	09/22/99	<10	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-202	09/22/99	<2	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-208	09/22/99	<2	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-1	09/22/99	<200	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-216	09/22/99	<2	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-101	09/22/99	<20	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-212	09/22/99	<2	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-213	09/22/99	<2	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-211	09/22/99	<10	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-209	09/22/99	<2	
9LTA77	Link's DX	Mason City	3rd Q SMR	MW-210	09/22/99	<2	
9LTG24	GAS N GOODS	MAYNARD	CONF. - 99	MW-4	08/26/99	<1	
9LTG24	GAS N GOODS	MAYNARD	CONF. - 99	GSW	08/26/99	<1	
8LTU39	NEW HORIZON FS	MECHANICSVIL	SMR - 1999	MW-3	08/25/99	<5	
8LTU39	NEW HORIZON FS	MECHANICSVIL	SMR - 1999	MW-4	08/25/99	<5	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTU39	NEW HORIZON FS	MECHANICSVIL	SMR - 1999	MW-6	08/25/99	<5	
8LTU39	NEW HORIZON FS	MECHANICSVIL	SMR - 1999	MW-10	08/25/99	<5	
7LTC24	Fast Break	Mediapolis	3rd Q SMR	MW-4	07/07/99	<10	
7LTC24	Fast Break	Mediapolis	3rd Q SMR	MW-5	07/07/99	<20	
7LTC24	Fast Break	Mediapolis	3rd Q SMR	MW-16	07/07/99	<20	
7LTD85	South Central	Melcher	Tier 2	MW 21	07/07/99	<1.0	
7LTD85	South Central	Melcher	Tier 2	LMW 4	07/07/99	<1.0	
7LTD85	South Central	Melcher	Tier 2	LMW 8	07/07/99	<1.0	
7LTQ12	Osceola Co. Coop	Melvin	SMR	MW-5	09/13/99	7	
7LTQ12	Osceola Co. Coop	Melvin	SMR	MW-11	09/13/99	<15	
7LTQ12	Osceola Co. Coop	Melvin	SMR	MW-14	09/13/99	<15	
7LTC40	IDOT	Missouri Valley	Remediation	MW-9R	09/21/99	<2	None
7LTC40	IDOT	Missouri Valley	Remediation	MW-11R	09/21/99	50.3	None
7LTC40	IDOT	Missouri Valley	Remediation	MW-13	09/21/99	<2	None
7LTC40	IDOT	Missouri Valley	Remediation	MW-14	09/21/99	<10	None
7LTC40	IDOT	Missouri Valley	Remediation	MW-15	09/21/99	132	None
7LTC40	IDOT	Missouri Valley	Remediation	MW-16	09/21/99	52.6	None
7LTC40	IDOT	Missouri Valley	Remediation	EW-1	09/21/99	633	None
7LTM03	KG #430	Missouri Valley	T2	S-3	07/20/99	133	
9LTF03	Reardon Oil	Monona	3rd Q SMR	MW-1	07/14/99	<10	
9LTF03	Reardon Oil	Monona	3rd Q SMR	MW-2	07/14/99	<1	
9LTF03	Reardon Oil	Monona	3rd Q SMR	MW-4	07/14/99	<2	
9LTF03	Reardon Oil	Monona	3rd Q SMR	MW-5	07/14/99	<200	
9LTF03	Reardon Oil	Monona	3rd Q SMR	MW-7	07/14/99	<2	
9LTF03	Reardon Oil	Monona	3rd Q SMR	MW-10	07/14/99	<2	
9LTF03	Reardon Oil	Monona	3rd Q SMR	MW-11	07/14/99	<100	
9LTF03	Reardon Oil	Monona	3rd Q SMR	MW-13	07/14/99	<10	
7LTJ22	kg#90	MONROE	SMR	M1	09/01/99	<b>11000</b>	
7LTJ22	kg#90	MONROE	SMR	M4	09/01/99	1460	
7LTJ22	kg#90	MONROE	SMR	M5	09/01/99	496	
7LTJ22	kg#90	MONROE	SMR	M7	09/01/99	<2	
7LTJ22	kg#90	MONROE	SMR	M8	09/01/99	3470	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring		Sample Date (mm/dd/yyyy)	MTBE	
			Event	Sample ID		Groundwater (ug/L)	Comments
7LTJ22	kg#90	MONROE	SMR	M9	09/01/99	<2	
7LTJ22	kg#90	MONROE	SMR	M11	09/01/99	<10.	
7LTJ22	kg#90	MONROE	SMR	M15	09/01/99	<100	
7LTJ22	kg#90	MONROE	SMR	M16	09/01/99	29.2	
7LTU32	Brodersen Oil Co.	Monroe	Tier-2	MW-7	07/18/99	1600	NA
7LTU32	Brodersen Oil Co.	Monroe	Tier-2	MW-8	10/16/99	<2	NA
8LTM81	Moorhead Coop	Moorhead	3rd Q SMR	MWB	07/07/99	<2	
8LTM81	Moorhead Coop	Moorhead	3rd Q SMR	MW-101	07/07/99	<2	
8LTM81	Moorhead Coop	Moorhead	3rd Q SMR	MW-102	07/07/99	<2	
8LTM81	Moorhead Coop	Moorhead	3rd Q SMR	MW-104	07/07/99	<2	
8LTM81	Moorhead Coop	Moorhead	3rd Q SMR	MW-106	07/07/99	<2	
8LTM81	Moorhead Coop	Moorhead	3rd Q SMR	MW-107	07/07/99	<10	
7LTT47	Former Consolidated Coop	Moorland	Tier 2	MW-6	07/30/99	<1	
7LTT47	Former Consolidated Coop	Moorland	Tier 2	MW-13	07/30/99	<1	
7LTT47	Former Consolidated Coop	Moorland	Tier 2	MW-14	07/30/99	<1	
7LTP15	Casey's	Morning Sun	SMR	1MW	07/27/99	<5.0	
7LTP15	Casey's	Morning Sun	SMR	5MW	07/27/99	7020	
7LTP15	Casey's	Morning Sun	SMR	MW1A	07/27/99	<b>11900</b>	
8LTI75	Dugan's Conoco	Mount Ayr	T2	MW-101	09/08/99	<1	
8LTZ04	DPH #3	Mount Pleasant	Tier 2 - 1999	B-1	08/10/99	<15	None
8LTZ04	DPH #3	Mount Pleasant	Tier 2 - 1999	B-7	08/10/99	<15	None
7LTJ81	IDOT Garage	Mount Pleasant	3rd Q SMR	MW-3	07/14/99	14	
7LTJ81	IDOT Garage	Mount Pleasant	3rd Q SMR	MW-6	07/14/99	605	
7LTJ81	IDOT Garage	Mount Pleasant	3rd Q SMR	MW-9	07/14/99	<2	
7LTJ81	IDOT Garage	Mount Pleasant	3rd Q SMR	MW-12	07/14/99	103	
7LTJ81	IDOT Garage	Mount Pleasant	3rd Q SMR	9MW	07/14/99	<2	
7LTJ81	IDOT Garage	Mount Pleasant	3rd Q SMR	MW-15	07/14/99	1070	
7LTJ81	IDOT Garage	Mount Pleasant	3rd Q SMR	EMW-3	07/14/99	<2	
7LTT76	Dickeys Texaco	Mount Pleasant	Tier 2	246328	07/30/99	<15	
7LTR39	Mustang Market	Mount Pleasant	SMR	MW8	07/06/99	<1.0	
7LTR39	Mustang Market	Mount Pleasant	SMR	MW9	07/06/99	3.12	
7LTR39	Mustang Market	Mount Pleasant	SMR	BH11	07/06/99	289	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTR39	Mustang Market	Mount Pleasant	SMR	BH12	07/06/99	30.6	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-6	08/11/99	9.2	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-8	08/11/99	<2	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-12	08/11/99	<100	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-14	08/11/99	4.1	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-15	08/11/99	<10	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-16	08/11/99	7.8	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-17	08/11/99	<2	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-19	08/11/99	<2	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-20	08/11/99	<20	
7LTM77	Amoco Zip Mart	Mount Vernon	3rd Q SMR	MW-22	08/11/99	<2	
7LTP99	S/M Service Muscatine	Muscatine	SMR 1999	MW-6	07/20/99	178	
7LTP99	S/M Service Muscatine	Muscatine	SMR 1999	MW-12	07/20/99	<1.0	
7LTT73	Wareco #661	Muscatine	SMR	MW-6	07/01/99	17.2	
7LTT73	Wareco #661	Muscatine	SMR	MW-7B	07/01/99	108	
7LTT73	Wareco #661	Muscatine	SMR	MW-12	07/01/99	186	
7LTT73	Wareco #661	Muscatine	SMR	MW-13	07/01/99	72	
7LTT73	Wareco #661	Muscatine	SMR	MW-17	07/01/99	101	
7LTT73	Wareco #661	Muscatine	SMR	MW-21	07/01/99	113	
7LTT73	Wareco #661	Muscatine	SMR	MW-6	07/01/99	17.2	
7LTT73	Wareco #661	Muscatine	SMR	MW-7B	07/01/99	108	
7LTT73	Wareco #661	Muscatine	SMR	MW-12	07/01/99	186	
7LTT73	Wareco #661	Muscatine	SMR	MW-13	07/01/99	72	
7LTT73	Wareco #661	Muscatine	SMR	MW-17	07/01/99	101	
7LTT73	Wareco #661	Muscatine	SMR	MW-21	07/01/99	113	
8LTI44	Bosch Pest	Muscatine	SMR	MW-3	07/01/99	<1.0	
8LTI44	Bosch Pest	Muscatine	SMR	MW-5	07/01/99	<1.0	
8LTI44	Bosch Pest	Muscatine	SMR	MW-9	07/01/99	<1.0	
8LTI44	Bosch Pest	Muscatine	SMR	MW-10	07/01/99	<1.0	
8LTI44	Bosch Pest	Muscatine	SMR	MW-17	07/01/99	<50	
8LTI44	Bosch Pest	Muscatine	SMR	MW-19	07/01/99	45.4	
8LTY69	West Side Store	Muscatine	Tier2	MW6	06/28/99	7320	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
8LTY69	West Side Store	Muscatine	Tier2	MW7	06/28/99	90.8	
8LTY69	West Side Store	Muscatine	Tier2	MW8	06/28/99	<b>10800</b>	
8LTY69	West Side Store	Muscatine	Tier2	MW9	06/28/99	4280	
8LTY69	West Side Store	Muscatine	Tier2	MW10	06/28/99	<1.0	
8LTY69	West Side Store	Muscatine	Tier2	MW11	06/28/99	<1.0	
8LTY69	West Side Store	Muscatine	Tier2	MW17	06/28/99	184	
8LTY69	West Side Store	Muscatine	Tier2	MW18	06/28/99	36.5	
7LTU08	Good-N-Quick	Nevada	SMR 99	MW-1	07/23/99	<250	NA
7LTU08	Good-N-Quick	Nevada	SMR 99	MW-5	07/23/99	<2	NA
7LTU08	Good-N-Quick	Nevada	SMR 99	MW-9	07/23/99	<2	NA
7LTU08	Good-N-Quick	Nevada	SMR 99	MW-12	07/23/99	<2	NA
7LTU08	Good-N-Quick	Nevada	SMR 99	MW-13	07/23/99	<2	NA
7LTU08	Good-N-Quick	Nevada	SMR 99	MW-14	07/23/99	2.5	NA
8LTG41	Kum & Go #396	Nevada	Tier 1	MW3	10/21/99	<10	none
8LTG41	Kum & Go #396	Nevada	Tier 1	MW4	10/21/99	<10	none
8LTG41	Kum & Go #396	Nevada	Tier 1	MW8b	07/16/99	<1	none
8LTP41	Ryerson Implement Co.	Nevada	SMR 99	MW-3	07/23/99	<2	NA
8LTP41	Ryerson Implement Co.	Nevada	SMR 99	MW-4	07/23/99	35.81	NA
8LTP41	Ryerson Implement Co.	Nevada	SMR 99	MW-7	07/23/99	<2	NA
8LTP41	Ryerson Implement Co.	Nevada	SMR 99	MW-11	09/21/99	<2	NA
8LTX09	BALL	NEVADA	SMR	MW1	10/11/99	<10	
8LTX09	BALL	NEVADA	SMR	MW4	10/11/99	<2	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	MW-5	08/31/99	<2	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	MW-6A	08/31/99	<2	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	MW-8	08/31/99	<2	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	MW-10	08/31/99	<2	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	MW-14	11/09/99	<2	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	EMW-4	08/31/99	<2	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	EMW-6	11/09/99	<2	
7LTV29	CV/FS	New Hampton	SMR 199	MW-4	08/17/99	<1.0	
7LTV29	CV/FS	New Hampton	SMR 199	MW-5	08/17/99	<1.0	
7LTV29	CV/FS	New Hampton	SMR 199	MW-7	08/17/99	126	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTK41	McKinnons Conoco	New London	3rd Q SMR	MW-1	07/08/99	5080	
7LTK41	McKinnons Conoco	New London	3rd Q SMR	EMW-1	07/08/99	61.5	
7LTK41	McKinnons Conoco	New London	3rd Q SMR	EMW-5	07/08/99	30.2	
9LTB60	JET STOP	NEW LONDON	T2	MW3	09/26/99	<15	
7LTI24	Newell Coop	Newell	SMR	MW-7	09/14/99	<15	
7LTW77	Newell Country Store	Newell	SMR	MW-1	09/01/99	<1.0	
7LTW77	Newell Country Store	Newell	SMR	MW-4	09/01/99	<1.0	
7LTW77	Newell Country Store	Newell	SMR	MW-7	09/01/99	<1.0	
7LTW77	Newell Country Store	Newell	SMR	MW-13	09/01/99	<200	
7LTW77	Newell Country Store	Newell	SMR	MW-14	09/01/99	<1.0	
7LTL67	Furler Oil Company	Newhall	SMR	MW4	09/01/99	7.4	
7LTL67	Furler Oil Company	Newhall	SMR	MW9	09/01/99	13.3	
7LTL67	Furler Oil Company	Newhall	SMR	MW12	09/01/99	21	
8LTS21	Linn Co-Op	Newhall	SMR	MW4	09/01/99	<1.0	
8LTS21	Linn Co-Op	Newhall	SMR	MW6	09/01/99	<1.0	
7LTK40	Barney's 66	Newton	Tier 2	MW-2	07/14/99	<1	
7LTK40	Barney's 66	Newton	Tier 2	MW-4	07/14/99	<1	
7LTK40	Barney's 66	Newton	Tier 2	MW-6	07/14/99	5.54	
7LTO57	Home Oil #28	Newton	Tier 2	MW-20	08/04/99	<1.0	
7LTW19	Dell Oil, Ltd.	Newton	Tier 2/SMR	1MW	08/24/99	86.2	
7LTW19	Dell Oil, Ltd.	Newton	Tier 2	1 MW	08/24/99	86.2	
7LTW19	Dell Oil, Ltd.	Newton	Tier 2	6 MW	08/24/99	97.5	
7LTW19	Dell Oil, Ltd.	Newton	Tier 2	8 MW	08/24/99	8	
7LTW19	Dell Oil, Ltd.	Newton	Tier 2	14 MW	08/24/99	21.9	
7LTW19	Dell Oil, Ltd.	Newton	Tier 2	18 MW	08/24/99	2.3	
7LTW19	Dell Oil, Ltd.	Newton	Tier 2	30 MW	08/24/99	29.9	
7LTW19	Dell Oil, Ltd.	Newton	Tier 2	31 MW	08/24/99	124	
7LTX89	Vernon Company	Newton	Tier 2	MW 1	09/10/99	<10	
7LTX89	Vernon Company	Newton	Tier 2	MW 2	09/10/99	<1	
7LTX89	Vernon Company	Newton	Tier 2	MW 3	09/10/99	<1	
7LTX89	Vernon Company	Newton	Tier 2	MW 4	09/10/99	<1	
7LTX89	Vernon Company	Newton	Tier 2	MW 5	09/10/99	<1	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
7LTX89	Vernon Company	Newton	Tier 2	MW 6	09/10/99	<1	
7LTX89	Vernon Company	Newton	Tier 2	MW 7	09/10/99	<1	
7LTY63	West End Apco	Newton	SMR	MW-8	08/25/99	296	
7LTY63	West End Apco	Newton	SMR	MW-12	08/26/99	<1	
7LTY63	West End Apco	Newton	SMR	EMW-4	08/27/99	<100	
8LTT10	Dealer's Warehouse	Newton	Tier 2	NMW1	08/03/99	<1.0	Unknown Monitor
9LTD82	Former Gas Station	Newton	Tier 1	MW-102	07/07/99	<1	
9LTH20	Goodyear Property	Newton	Tier 1 - 1999	MW-1	07/09/99	<5.0	
9LTH20	Goodyear Property	Newton	Tier 1 - 1999	MW-2	07/09/99	<1.0	
9LTH20	Goodyear Property	Newton	Tier 1 - 1999	MW-3	07/09/99	<1.0	
7LTU06	Low's Amoco	Northwood	3rd Q SMR	MW-1	08/12/99	<20	
7LTU06	Low's Amoco	Northwood	3rd Q SMR	MW-3	08/12/99	<2	
7LTU06	Low's Amoco	Northwood	3rd Q SMR	MW-6	08/12/99	<2	
7LTU06	Low's Amoco	Northwood	3rd Q SMR	MW-8	08/12/99	<2	
7LTU06	Low's Amoco	Northwood	3rd Q SMR	MW-10	08/12/99	<2	
7LTF61	IDOT Oakdale	Oakdale	SMR	MW-11	07/08/99	<1	
7LTF61	IDOT - Oakdale	Oakdale	SMR	MW-13	07/08/99	<100	
7LTF61	IDOT - Oakdale	Oakdale	SMR	MW-19	07/08/99	0.63	
7LTF61	IDOT - Oakdale	Oakdale	SMR	MW-20	07/08/99	<1.0	
7LTF61	IDOT - Oakdale	Oakdale	SMR	MW-27	07/08/99	<1.0	
7LTF61	IDOT - Oakdale	Oakdale	SMR	MW-13	07/08/99	<100	
7LTF61	IDOT - Oakdale	Oakdale	SMR	MW-19	07/08/99	0.63	
7LTF61	IDOT - Oakdale	Oakdale	SMR	MW-20	07/08/99	<1.0	
7LTF61	IDOT - Oakdale	Oakdale	SMR	MW-27	07/08/99	<1.0	
7LTL86	D&J Taylor Oil	Oakland	Tier 1	MW11	07/09/99	<10	
7LTL86	D&J Taylor Oil	Oakland	Tier 1	B-30	07/09/99	<1.0	
7LTL86	D&J Taylor Oil	Oakland	Tier 1	MW-14	07/09/99	<1.0	
7LTU62	Oelwein Bumper to Bumpe Oelwein		SMR	MW-1	09/08/99	<100	
7LTU62	Oelwein Bumper to Bumpe Oelwein		SMR	MW-2	09/08/99	<25	
7LTU62	Oelwein Bumper to Bumpe Oelwein		SMR	MW-3	09/08/99	<1.0	
7LTU62	Oelwein Bumper to Bumpe Oelwein		SMR	MW-8	09/08/99	<50	
7LTU62	Oelwein Bumper to Bumpe Oelwein		SMR	MW-16	09/08/99	<1.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTU62	Oelwein Bumper to Bumpe	Oelwein	SMR	MW-18	09/08/99	<1.0	
7LTU62	Oelwein Bumper to Bumpe	Oelwein	SMR	MW-19	09/08/99	<1.0	
9LTA36	Former Jim's Quick Shop	Oelwein	SMR	MW-7	09/08/99	<100	
9LTA36	Former Jim's Quick Shop	Oelwein	SMR	MW-15	09/08/99	<5.0	
9LTA36	Former Jim's Quick Shop	Oelwein	SMR	MW-18	09/08/99	53	
8LTU26	Ogden Oil Co.	Ogden	99 SMR	MW-2	07/14/99	536	
8LTU26	Ogden Oil Co.	Ogden	99 SMR	MW-6	07/14/99	60.1	
8LTU26	Ogden Oil Co.	Ogden	99 SMR	MW-17	07/14/99	467	
8LTT23	Okoboji Standard	Okoboji	SMR	MW-3A	07/30/99	<40	
8LTT23	Okoboji Standard	Okoboji	SMR	MW-4A	07/30/99	<15	
7Itl54	KG#662	Olin	SMR	MW1	07/13/99	5200	
7Itl54	KG#662	Olin	SMR	MW2	07/13/99	130	
7Itl54	KG#662	Olin	SMR	MW4A	07/13/99	<30	
7Itl54	KG#662	Olin	SMR	MW20	07/13/99	<15	
8LTU73	IDOT - Osage	Osage	Tier 1, 1999	MW-12	07/15/99	<1.0	
8LTU73	IDOT - Osage	Osage	Tier 1, 1999	MW-16	07/15/99	<1.0	
8LTU73	IDOT - Osage	Osage	Tier 1, 1999	MW-17	07/15/99	<1.0	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-11	10/27/93	<20	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-11	11/01/94	<20	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-12	10/27/93	110	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-12	11/01/94	160	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-13	10/27/93	<200	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-13	11/01/94	130	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-14	10/31/94	<20	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-15	10/31/94	<20	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-16	11/01/94	<20	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-17	11/01/94	<20	
8LTU73	IDOT - Osage	Osage	SCR, 1994	MW-18	11/01/94	<20	
8LTW90	CV/FS	Osage	SMR 1999	MW-1	08/16/99	<1.0	
8LTW90	CV/FS	Osage	SMR 1999	MW-2	08/16/99	<1.0	
8LTW90	CV/FS	Osage	SMR 1999	MW-3	08/16/99	<1.0	
8LTW90	CV/FS	Osage	SMR 1999	MW-4	08/16/99	<1.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTL22	Smith Oil Company	Osceola	SMR	MW-1	08/12/99	<10	
8LTL22	Smith Oil Company	Osceola	SMR	MW-2	08/12/99	82.3	
8LTL22	Smith Oil Company	Osceola	SMR	MW-3	08/12/99	51.9	
8LTL22	Smith Oil Company	Osceola	SMR	MW-5	08/12/99	<10	
8LTL22	Smith Oil Company	Osceola	SMR	MW-6	08/12/99	41.1	
8LTL22	Smith Oil Company	Osceola	SMR	MW-11	08/12/99	<1,000	
8LTL22	Smith Oil Company	Osceola	SMR	MW-12	08/12/99	<1	
8LTL22	Smith Oil Company	Osceola	SMR	MW-14	08/12/99	<100	
8LTL22	Smith Oil Company	Osceola	SMR	RW-1	08/12/99	<1	
7LTX92	Former Total	Oskaloosa	SMR	MW-2K	07/14/99	2640	
7LTX92	Former Total	Oskaloosa	SMR	MW-3	07/14/99	<1	
7LTX92	Former Total	Oskaloosa	SMR	MW-4	07/14/99	7.1	
7LTX92	Former Total	Oskaloosa	SMR	MW-6	07/14/99	<2500	
7LTX92	Former Total	Oskaloosa	SMR	MW-7	07/14/99	<1	
7LTX92	Former Total	Oskaloosa	SMR	MW-13	07/14/99	<1	
7LTD80	Vaughn Motors-236	Ottumwa	3rd Q SMR	MW-1	07/08/99	<10	
7LTD80	Vaughn Motors-236	Ottumwa	3rd Q SMR	MW-5	07/08/99	<4	
7LTD80	Vaughn Motors-236	Ottumwa	3rd Q SMR	MW-9	07/08/99	<10	
7LTD80	Vaughn Motors-236	Ottumwa	3rd Q SMR	MW-A	07/08/99	<10	
7LTD80	Vaughn Motors-236	Ottumwa	3rd Q SMR	MW-C	07/08/99	<200	
7LTD80	Vaughn Motors-236	Ottumwa	3rd Q SMR	MW-D	07/08/99	<2	
7LTM71	R & S TIRE	Ottumwa	SMR 1999	MW-3	09/22/1999	4730	
7LTM71	R & S TIRE	Ottumwa	SMR 1999	MW-6	09/22/1999	<10	
7LTM71	R & S TIRE	Ottumwa	SMR 1999	MW-7	09/22/1999	2440	
7LTM71	R & S TIRE	Ottumwa	SMR 1999	MW-8	09/22/1999	35.3	
7LTM71	R & S TIRE	Ottumwa	SMR 1999	MW-10	09/22/1999	13.8	
7LTM71	R & S TIRE	Ottumwa	SMR 1999	MW-11	09/22/1999	<1000	
7LTM71	R & S TIRE	Ottumwa	SMR 1999	MW-14	09/22/1999	61.4	
7LTM71	R & S TIRE	Ottumwa	SMR 1999	MW-15	09/22/1999	<b>99400</b>	
7LTM71	R & S TIRE	Ottumwa	SMR 1999	MW-17	09/22/1999	56.3	
7LTX28	Coastal Mart	Ottumwa	SMR-1999	MW-1B	09/25/99	<10	
7LTX28	Coastal Mart	Ottumwa	SMR-1999	MW-3B	09/25/99	<2.0	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTX28	Coastal Mart	Ottumwa	SMR-1999	MW-4	09/25/99	<2.0	
7LTX28	Coastal Mart	Ottumwa	SMR-1999	MW-5B	09/25/99	<200	
7LTX28	Coastal Mart	Ottumwa	SMR-1999	MW-7	09/25/99	88	
7LTX28	Coastal Mart	Ottumwa	SMR-1999	RW-1	09/25/99	<200	
7LTX28	Coastal Mart	Ottumwa	SMR-1999	RW-2	09/25/99	<200	
7LTX28	Coastal Mart	Ottumwa	SMR-1999	MW-N	09/25/99	<1000	
7LTX28	Coastal Mart	Ottumwa	SMR-1999	MW-N2	09/25/99	3.1	
7LTY32	Ottumwa Joint Site (Warec Ottumwa		SMR	MW-5	07/21/99	<200	
7LTY32	Ottumwa Joint Site (Warec Ottumwa		SMR	MW-20	07/21/99	<1	
7LTY32	Ottumwa Joint Site (Warec Ottumwa		SMR	MW-24	07/21/99	<1	
7LTY32	Ottumwa Joint Site (Warec Ottumwa		SMR	MW-27	07/21/99	<1	
7LTY32	Ottumwa Joint Site (Warec Ottumwa		SMR	MW-28	07/21/99	<1	
7LTY32	Ottumwa Joint Site (Warec Ottumwa		SMR	MW-29	07/21/99	<1	
8LTI27	Indian Hills CC	Ottumwa		MW2	10/13/99	<1.0	
9LTD47	Here & Now	Ottumwa	Tier-2	MW-10	08/07/99	38	
9LTD93	Vaughn Motors-206	Ottumwa	3rd Q SMR	MW-3	07/08/99	<20	
9LTD93	Vaughn Motors-206	Ottumwa	3rd Q SMR	MW-6	07/08/99	<2	
7LTT30	Sleepy Hollow	Oxford	SMR 1999	MW-1A	07/21/99	25	
7LTT30	Sleepy Hollow	Oxford	SMR 1999	MW-2A	07/21/99	<1.0	
7LTT30	Sleepy Hollow	Oxford	SMR 1999	MW-3A	07/21/99	<1.0	
7LTT30	Sleepy Hollow	Oxford	SMR 1999	MW-4	07/21/99	180	
7LTT30	Sleepy Hollow	Oxford	SMR 1999	MW-5	07/21/99	300	
7LTT30	Sleepy Hollow	Oxford	SMR 1999	MW-6	07/21/99	34	
7LTV63	Casey's	Panora	Tier 1	MW1-R	10/07/99	<1.0	
8LTL58	City Hall - Panora	Panora	Tier 1	MW3	08/26/99	<1.0	
8LTL58	City Hall - Panora	Panora	Tier 1	MW4	08/26/99	<1.0	
8LTL58	City Hall - Panora	Panora	Tier 1	MW5	08/26/99	<1.0	
8LTM24	Vets Auditorium	Panora	Tier 2	MW1	08/26/99	<1.0	
8LTM24	Vets Auditorium	Panora	Tier 2	MW2	09/07/99	<1.0	
8LTM24	Vets Auditorium	Panora	Tier 2	MW4	08/26/99	1.4	
8LTM24	Vets Auditorium	Panora	Tier 2	MW5	08/26/99	<1.0	
8LTM24	Vets Auditorium	Panora	Tier 2	MW6	08/26/99	<1.0	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTM24	Vets Auditorium	Panora	Tier 2	MW7	08/26/99	<1.0	
8LTM24	Vets Auditorium	Panora	Tier 2	MW8	08/26/99	<1.0	
8LTM24	Vets Auditorium	Panora	Tier 2	MW9	08/26/99	<1.0	
8LTM24	Vets Auditorium	Panora	Tier 2	MW10	08/26/99	<1.0	
8LTM24	Vets Auditorium	Panora	Tier 2	MW11	08/26/99	<1.0	
8LTM24	Vets Auditorium	Panora	Tier 2	MW12	08/26/99	<1.0	
9LTH84	Wagoner	Parkersburg	Tier 1 1999	MW1	11/01/99	3.2	
9LTH84	Wagoner	Parkersburg	Tier 1 1999	MW2	11/01/99	1	
9LTH84	Wagoner	Parkersburg	Tier 1 1999	MW3	10/26/99	<1.0	
8LTX32	Weldon Oil	Parnell	SMR	MW-4	07/19/99	<20	
8LTX32	Weldon Oil	Parnell	SMR	MW-8	07/19/99	<1.0	
8LTX32	Weldon Oil	Parnell	SMR	MW-13	07/19/99	<1.0	
8LTX32	Weldon Oil Company	Parnell	SMR	MW-4	07/19/99	<20	Reporting Limit elevated due to matrix interferences
8LTX32	Weldon Oil Company	Parnell	SMR	MW-8	07/19/99	<1	
8LTX32	Weldon Oil Company	Parnell	SMR	MW-13	07/19/99	<1	
8LTF44	First Cooperative	Paullina	Tier 1	MW-2	08/16/99	<40	
8LTF44	First Cooperative	Paullina	Tier 1	MW-3	08/19/99	<40	
8LTF44	First Cooperative	Paullina	Tier 1	MW-8	08/16/99	<15	
8LTF44	First Cooperative	Paullina	Tier 1	MW-10	08/16/99	<15	
7LTB51	Pella Historical Society	Pella	SMR	MW-5	08/25/99	175	
7LTI80	Coastal Mart	Pella	SMR-1999	MW-1	09/15/99	245	ETBE and DIPE detected
7LTI80	Coastal Mart	Pella	SMR-1999	MW-2	09/15/99	<2	
7LTI80	Coastal Mart	Pella	SMR-1999	MW-3	09/15/99	25.8	ETBE and TBA detected
7LTI80	Coastal Mart	Pella	SMR-1999	MW-4	09/15/99	80	TBA detected
7LTI80	Coastal Mart	Pella	SMR-1999	MW-5	09/15/99	87.3	ETBE and TBA detected
7LTI80	Coastal Mart	Pella	SMR-1999	MW-6	09/15/99	<40	
7LTI80	Coastal Mart	Pella	SMR-1999	MW-8	09/15/99	4.4	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTI80	Coastal Mart	Pella	SMR-1999	MW-10	09/15/99	9.9	
7LTI80	Coastal Mart	Pella	SMR-1999	MW-11	09/15/99	292	
7LTI80	Coastal Mart	Pella	SMR-1999	MW-14	09/15/99	76.6	
9LTD71	Willis Ave	Perry	Tier 1	MW-1	10/06/99	<20	
9LTD71	Willis Ave	Perry	Tier 1	MW-14	10/06/99	<2	
9LTD71	Willis Ave	Perry	Tier 1	MW-16	10/06/99	<2	
9LTD71	Willis Ave	Perry	Tier 1	MW-24	10/06/99	222	
9LTD71	Willis Ave	Perry	Tier 1	MW-25	10/06/99	<2	
9LTD71	Willis Ave	Perry	Tier 1	MW-26	10/06/99	<2	
9LTG37	Chenet Residence	Pershing	Tier 1	MW1	09/22/99	<1.0	
9LTG37	Chenet Residence	Pershing	Tier 1	MW2	09/22/99	<1.0	
9LTG37	Chenet Residence	Pershing	Tier 1	MW3	09/22/99	<1.0	
8LTW43	Peterson skelly	Pocahontas	SMR	97769-3 (W)	09/01/99	<100	NONE
8LTW43	Peterson skelly	Pocahontas	SMR	97769-6 (W)	09/01/99	<2	NONE
8LTW43	Peterson skelly	Pocahontas	SMR	97769-7 (W)	09/01/99	<2	NONE
7ltw17	Casey's	Polk City	Tier 2	1MW	08/18/99	<1.0	
9LTE63	Kum & Go #135	Polk City	Tier 2	MW2	10/01/99	<1	none
9LTE63	Kum & Go #135	Polk City	Tier 2	MW3	10/01/99	<1	none
9LTE63	Kum & Go #135	Polk City	Tier 2	MW5	10/01/99	<1	none
9LTH28	Schneider Motor	Postville	T2R-99	MW-5	08/26/99	<1	
9LTH28	Schneider Motor	Postville	T2R-99	MW-2	10/06/99	<10	
8LTF58	Coastal Mart	Red Oak	SMR-1999	MW-4	09/14/99	<2.0	
8LTF58	Coastal Mart	Red Oak	SMR-1999	MW-6	09/14/99	<2.0	
8LTF58	Coastal Mart	Red Oak	SMR-1999	MW-10	09/14/99	<2.0	
8LTF58	Coastal Mart	Red Oak	SMR-1999	MW-14	09/14/99	<2.0	
8LTF58	Coastal Mart	Red Oak	SMR-1999	MW-15	09/14/99	<2.0	
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-1	09/13/99	35.3	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-2	09/13/99	5690	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-3	09/13/99	9.1	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-4	09/13/99	<2	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-5	09/13/99	<1	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-6	09/13/99	1.1	None

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-7	09/13/99	21.5	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-10	09/13/99	262	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-14	09/13/99	1610	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-16	09/13/99	<5	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-19	09/13/99	<1	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-23	09/13/99	<50	None
8LTI32	Kerr McGee	Red Oak	3rd Qtr SMR	MW-24	09/13/99	130	None
7LTB53	Reinbeck Motors	REINBECK	SMR-99	MW-1	08/06/99	90.5	
7LTB53	Reinbeck Motors	REINBECK	SMR-99	MW-3	08/06/99	<1	
7LTB53	Reinbeck Motors	REINBECK	SMR-99	MW-5	08/06/99	<1	
7LTB53	Reinbeck Motors	REINBECK	SMR-99	MW-8	08/06/99	<1	
7LTB53	Reinbeck Motors	REINBECK	SMR-99	MW-9	08/06/99	8.9	
7LTB53	Reinbeck Motors	REINBECK	SMR-99	MW-10	08/06/99	<1	
8LTH59	Ritz Service	Remsen	SMR	MW-1	07/21/99	<15	
9LTG28	Plymouth County Tire Con	Remsen	Tier 2	MW-9	07/12/99	12.4	
9LTG28	Plymouth County Tire Con	Remsen	Tier 2	MW-10	07/12/99	215	
9LTG28	Plymouth County Tire Con	Remsen	Tier 2	MW-11	07/12/99	<1.0	
9LTF04	Wayne's Kwik N EZ	Riverside	99 SMR	MW-2	08/25/99	<200	
9LTF04	Wayne's Kwik N EZ	Riverside	99 SMR	MW-3	08/25/99	1520	
9LTF04	Wayne's Kwik N EZ	Riverside	99 SMR	MW-4	08/25/99	607	
9LTF04	Wayne's Kwik N EZ	Riverside	99 SMR	MW-7	08/25/99	<2	
9LTF04	Wayne's Kwik N EZ	Riverside	99 SMR	MW-12	08/25/99	<2	
9LTF04	Wayne's Kwik N EZ	Riverside	99 SMR	MW-13	08/25/99	<2	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-3	10/05/99	1120	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-3 dupl	10/05/99	1040	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-4	10/05/99	<1	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-5	10/05/99	<1	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-7	10/05/99	<1	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-8	10/05/99	<1	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-11	10/05/99	<1	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-12	10/05/99	44	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-13	10/05/99	<10	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-14	10/05/99	<1	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-15	10/05/99	<1	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-16	10/05/99	<25	
7LTA55	IDOT	Rock Rapids	SMR	MW-2A	07/27/99	<15	
7LTA55	IDOT	Rock Rapids	SMR	MW-7	07/27/99	<15	
7LTA55	IDOT	Rock Rapids	SMR	MW-15	07/27/99	<15	
7LTA55	IDOT	Rock Rapids	SMR	MW-17	07/27/99	<15	
7LTA55	IDOT	Rock Rapids	SMR	MW-19	07/13/99	<0.5	
7LTS62	Community Oil Company	Rock Valley	Tier 1	MW-3	08/10/99	<15	
7LTS62	Community Oil Company	Rock Valley	Tier 1	MW-5	08/10/99	<15	
7LTS62	Community Oil Company	Rock Valley	Tier 1	MW-7	08/10/99	<15	
7LTS62	Community Oil Company	Rock Valley	Tier 1	MW-9	08/10/99	<15	
7LTS62	Community Oil Company	Rock Valley	Tier 1	MW-13	08/10/99	<15	
8LTV67	Pump N Pak	Rock Valley	SMR	MW-1	09/17/99	<40	
8LTV67	Pump N Pak	Rock Valley	SMR	MW-2	09/17/99	<15	
8LTV67	Pump N Pak	Rock Valley	SMR	MW-6	09/17/99	<15	
8LTV67	Pump N Pak	Rock Valley	SMR	MW-7	09/17/99	<15	
8LTV67	Pump N Pak	Rock Valley	SMR	MW-8	09/17/99	<15	
8LTV67	Pump N Pak	Rock Valley	SMR	MW-10	09/17/99	<15	
8LTV67	Pump N Pak	Rock Valley	SMR	VEW-1	09/17/99	<40	
8LTI18	Bigg's Service	Rockford	3rd Q SMR	MW-4	08/13/99	<2	
8LTI18	Bigg's Service	Rockford	3rd Q SMR	MW-15	08/13/99	<2	
8LTI18	Bigg's Service	Rockford	3rd Q SMR	MW-16	08/13/99	<2	
8LTI18	Bigg's Service	Rockford	3rd Q SMR	BH-20	08/13/99	<2	
8LTI18	Bigg's Service	Rockford	3rd Q SMR	BH-21	08/13/99	<2	
7LTH26	Kum & Go #545	Rockwell City	Tier 2	M4	09/21/99	<20	none
7LTH26	Kum & Go #545	Rockwell City	Tier 2	M4	11/04/99	58.9	none
7LTH26	Kum & Go #545	Rockwell City	Tier 2	M10	09/21/99	<1	none
7LTH26	Kum & Go #545	Rockwell City	Tier 2	M10	11/04/99	<1	none
7LTH26	Kum & Go #545	Rockwell City	Tier 2	M15	09/21/99	<1	none
7LTH26	Kum & Go #545	Rockwell City	Tier 2	M15	11/04/99	86.1	none
7LTO98	Schlutz Standard	Sac City	3rd Q SMR	MW-102	09/08/99	<20	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTO98	Schlutz Standard	Sac City	3rd Q SMR	MW-205	09/08/99	59.8	
7LTQ63	Bode's Service	Schaller	Tier 2	MW-8	07/13/99	< 1.0	
7LTQ63	Bode's Service	Schaller	Tier 2	MW-9	09/10/99	< 1.0	
7LTG76	Crawford County	Schleswig	SMR	9071-7(W)	07/14/99	940	
7LTG76	Crawford County	Schleswig	SMR	9071-9(W)	07/14/99	<2	
7LTG76	Crawford County	Schleswig	SMR	9071-49(W)	07/14/99	412	
8LTZ60	Mike's Mini Mart	Sergeant Bluff	Tier 2	MW-2	08/04/99	<150	
8LTZ60	Mike's Mini Mart	Sergeant Bluff	Tier 2	MW-3	08/04/99	<40	
8LTZ60	Mike's Mini Mart	Sergeant Bluff	Tier 2	MW-4	08/04/99	<15	
8LTZ60	Mike's Mini Mart	Sergeant Bluff	Tier 2	MW-7	08/04/99	<15	
8LTZ60	Mike's Mini Mart	Sergeant Bluff	Tier 2	MW-11	08/04/99	<15	
8LTZ60	Mike's Mini Mart	Sergeant Bluff	Tier 2	MW-15	08/04/99	<15	
7LTT06	Fr. Bait Shop	Sergeant Bluff	SMR	MW-1	08/04/99	<40	
7LTT06	Fr. Bait Shop	Sergeant Bluff	SMR	MW-2	08/04/99	<40	
7LTT06	Fr. Bait Shop	Sergeant Bluff	SMR	MW-3	08/04/99	<15	
7LTT06	Fr. Bait Shop	Sergeant Bluff	SMR	MW-4	08/04/99	<15	
7LTT06	Fr. Bait Shop	Sergeant Bluff	SMR	MW-6	08/04/99	<15	
7LTT06	Fr. Bait Shop	Sergeant Bluff	SMR	MW-7	08/04/99	<15	
7LTA73	Coastal Mart	Seymour	SMR-1999	MW-13	08/10/99	<10	
7LTA73	Coastal Mart	Seymour	SMR-1999	MW-10	08/10/99	<10	
7LTA73	Coastal Mart	Seymour	SMR-1999	MW-6	08/10/99	<10	
7LTA73	Coastal Mart	Seymour	SMR-1999	MW-5R	08/10/99	111	
7LTA73	Coastal Mart	Seymour	SMR-1999	MW-12	08/10/99	<10	
7LTX23	former Mobil Station	Sharpsburg	1999 SMR	MW-1R	08/25/99	114	
7LTX23	former Mobil Station	Sharpsburg	1999 SMR	MW-2	08/25/99	499	
7LTX23	former Mobil Station	Sharpsburg	1999 SMR	MW-3	08/25/99	177	
7LTX23	former Mobil Station	Sharpsburg	1999 SMR	MW-5	08/25/99	< 1.0	
7LTX23	former Mobil Station	Sharpsburg	1999 SMR	MW-9	08/25/99	81	
7LTX23	former Mobil Station	Sharpsburg	1999 SMR	MW-11	08/25/99	11	
7LTQ96	Whitehill Texaco	Shenandoah	Tier 1	155MW	08/25/99	<15	
8LTG80	Coastal Mart	Shenandoah	SMR-1999	MW-2A	09/14/99	<0.4	
8LTQ01	Corner Mart	Shenandoah	Tier 1	101MW	08/25/99	<15	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTQ01	Corner Mart	Shenandoah	Tier 1	137MW	08/25/99	<15	
7LTF40	IDOT MG	SIBLEY	SMR	MW9	08/08/99	<2	
7LTF40	IDOT MG	SIBLEY	SMR	MW11	08/08/99	<1	
7LTF40	IDOT MG	SIBLEY	SMR	MW12	08/08/99	<2	
7LTF40	IDOT MG	SIBLEY	SMR	MW13	08/08/99	<2	
8LTA50	Phelps Auto	Sigourney	SMR	MW 2	08/09/99	12.8	
8LTA50	Phelps Auto	Sigourney	SMR	MW 7	08/09/99	281	
8LTA50	Phelps Auto	Sigourney	SMR	MW 9	08/09/99	427	
8LTA50	Phelps Auto	Sigourney	SMR	MW 11	08/09/99	56.7	
8LTA50	Phelps Auto	Sigourney	SMR	MW 19	08/09/99	288	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-6	09/01/99	<2	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-7	09/01/99	<2	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-8	09/01/99	<2	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-9	09/01/99	7.3	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-10	09/01/99	69	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-13	09/01/99	<40	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-16	09/01/99	<2	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-26R	09/01/99	<2	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-27	09/01/99	50	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-28	09/01/99	271	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-29	09/01/99	<40	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-31	09/01/99	<2	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-32	09/01/99	<2	
7LTD77	IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	MW-34	09/01/99	<2	
7LTL81	Wilburt Vault	Sioux City	Tier 1	MW-1	08/03/99	15	
7LTS65	Hacket Leed Conoco	Sioux City	SMR	MW-2	09/02/99	<40	
7LTS65	Hacket Leed Conoco	Sioux City	SMR	MW-5	09/02/99	70	
7LTS65	Hacket Leed Conoco	Sioux City	SMR	MW-9	09/02/99	<15	
7LTS65	Hacket Leed Conoco	Sioux City	SMR	MW-11	09/02/99	25	
7LTS65	Hacket Leed Conoco	Sioux City	SMR	MW-17	09/02/99	<15	
7LTT11	Saunder's Oil Co., Station	Sioux City	SMR	MW-5	08/03/99	<150	
7LTT11	Saunder's Oil Co., Station	Sioux City	SMR	MW-6	08/03/99	<15	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTT11	Saunder's Oil Co., Station	Sioux City	SMR	MW-7	08/03/99	<150	
7LTT11	Saunder's Oil Co., Station	Sioux City	SMR	MW-9	08/03/99	<40	
7LTT11	Saunder's Oil Co., Station	Sioux City	SMR	MW-26	08/03/99	<40	
7LTT11	Saunder's Oil Co., Station	Sioux City	SMR	MW-29	08/03/99	<15	
7LTY75	Jefferson Smurfit	Sioux City	Tier 2	R3	07/19/99	<15	
7LTY75	Jefferson Smurfit	Sioux City	Tier 2	R4	07/19/99	<15	
7LTY75	Jefferson Smurfit	Sioux City	Tier 2	R6	07/19/99	<15	
7LTY75	Jefferson Smurfit	Sioux City	Tier 2	MW-6	07/19/99	<15	
7LTY75	Jerrerson Smurfit Corp.	Sioux City	SMR	R-3	07/19/99	<15	
7LTY75	Jerrerson Smurfit Corp.	Sioux City	SMR	R-4	07/19/99	<15	
7LTY75	Jerrerson Smurfit Corp.	Sioux City	SMR	R-6	07/19/99	<15	
7LTY75	Jerrerson Smurfit Corp.	Sioux City	SMR	MW-6	08/03/99	<15	
8LTE01	R & B Motors	Sioux City	SMR	MW-2	07/19/99	<150	
8LTE01	R & B Motors	Sioux City	SMR	MW-3	07/19/99	<15	
8LTE01	R & B Motors	Sioux City	SMR	MW-17	07/19/99	<15	
8LTE01	R & B Motors	Sioux City	SMR	MW-30	07/19/99	<15	
8LTE66	Speedy Auto W.	Sioux City	SMR	MW-4	09/07/99	<15	
8LTE66	Speedy Auto W.	Sioux City	SMR	MW-7	09/07/99	<15	
8LTE66	Speedy Auto W.	Sioux City	SMR	MW-8	09/07/99	4	
8LTE66	Speedy Auto W.	Sioux City	SMR	MW-9	09/07/99	<15	
8LTE66	Speedy Auto W.	Sioux City	SMR	MW-10	08/04/99	<15	
8LTK79	Fr. Battery Shack	Sioux City	SMR	MW-1A	08/26/99	<160	
8LTK79	Fr. Battery Shack	Sioux City	SMR	MW-3A	08/26/99	<40	
8LTK79	Fr. Battery Shack	Sioux City	SMR	MW-5	08/26/99	<40	
8LTK79	Fr. Battery Shack	Sioux City	SMR	MW-11	08/26/99	<40	
8LTK79	Fr. Battery Shack	Sioux City	SMR	MW-13	01/00/00	<160	
8LTK79	Fr. Battery Shack	Sioux City	SMR	MW-24	08/26/99	<40	
8LTM85	20th St. Conoco	Sioux City	SMR	MW-5	09/08/99	<40	
8LTM85	20th St. Conoco	Sioux City	SMR	MW-7	09/08/99	<15	
8LTM85	20th St. Conoco	Sioux City	SMR	MW-8	09/08/99	<40	
8LTM85	20th St. Conoco	Sioux City	SMR	MW-9	09/08/99	<15	
8LTM85	20th St. Conoco	Sioux City	SMR	MW-22	09/08/99	<40	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
8LTP04	Yellow Freight	Sioux City	99 SMR	MW-1	10/26/99	<2	
8LTP45	Mick's Fina	Sioux City	SMR	MW-1	09/02/99	<100	
8LTP45	Mick's Fina	Sioux City	SMR	MW-6	09/02/99	<100	
8LTP45	Mick's Fina	Sioux City	SMR	MW-10	09/02/99	<100	
8LTZ70	Fabricators	Sioux City	SMR	MW5	08/23/99	<50	
8LTZ70	Fabricators	Sioux City	SMR	MW9	08/23/99	<1	
8LTZ70	Fabricators	Sioux City	SMR	MW10	08/23/99	<1	
8LTZ70	Fabricators	Sioux City	SMR	MW11	08/23/99	<10	
8LTZ70	Fabricators	Sioux City	SMR	MW12	08/23/99	15.8	
9LTB21	E&S Stores	Sioux City	SMR	MW-7	09/02/99	<15	
9LTB21	E&S Stores	Sioux City	SMR	MW-8	09/02/99	<15	
9LTB21	E&S Stores	Sioux City	SMR	MW-14	09/02/99	<15	
9LTB21	E&S Stores	Sioux City	SMR	MW-21	09/02/99	<15	
9LTB21	E&S Stores	Sioux City	SMR	MW-26	09/02/99	<15	
9LTF25	AST Area	Sioux City	Tier 1	AMW-4	09/15/1999	<5.0	
9LTF25	AST Area	Sioux City	Tier 1	Dup-1	09/15/1999	<5.0	
9LTF25	AST Area	Sioux City	Tier 1	trip	09/15/1999	<1.0	
9LTH63	2017 E.3rd St	Sioux City	TIER1	MW1	08/04/99	<1.0	
9LTH63	2017 E.3rd St	Sioux City	TIER1	MW2	08/03/99	<1.0	
9LTH63	2017 E.3rd St	Sioux City	TIER1	MW3	08/03/99	<2.0	
9LTH63	2017 E.3rd St	Sioux City	TIER1	MW4	08/30/99	<5.0	
8LTG53	Mason's Standard	Slater	99 SMR	MW-1	08/05/99	81	
8LTG53	Mason's Standard	Slater	99 SMR	MW-3	08/05/99	<20	
8LTG53	Mason's Standard	Slater	99 SMR	MW-5	08/05/99	<50	
8LTG53	Mason's Standard	Slater	99 SMR	MW-6	08/05/99	77.3	
8LTG53	Mason's Standard	Slater	99 SMR	MW-8	08/05/99	<10	
8LTG53	Mason's Standard	Slater	99 SMR	MW-101	08/05/99	100	
7LTR43	Voss Petroleum Company	Solon	SMR	BH5	07/06/99	2.77	
7LTR43	Voss Petroleum Company	Solon	SMR	BH9	07/06/99	<1.0	
7LTR43	Voss Petroleum Company	Solon	SMR	BH10	07/06/99	4.24	
7LTR43	Voss Petroleum Company	Solon	SMR	BH11	07/06/99	<1.0	
8LTD81	Bob's Sunoco	Solon	SMR	MW1	08/25/99	29.4	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTD81	Bob's Sunoco	Solon	SMR	MW2	08/25/99	<1.0	
8LTD81	Bob's Sunoco	Solon	SMR	MW3	08/25/99	<5.0	
7LTV75	Car Go Express	Spencer	SMR	MW-4	08/17/99	<15	
7LTV75	Car Go Express	Spencer	SMR	MW-6	08/17/99	<15	
7LTV75	Car Go Express	Spencer	SMR	MW-9	08/17/99	<15	
8LTE47	North IOCO Speede Shop	Spencer	Site Check	MW-1	08/17/99	174	
8LTE47	North IOCO Speede Shop	Spencer	Site Check	MW-9	08/17/99	<15	
8LTE47	North IOCO Speede Shop	Spencer	Site Check	MW-11	08/17/99	<15	
8LTN55	Spencer Utilities	Spencer	SMR	MW-5	07/29/99	<100	
8LTN55	Spencer Utilities	Spencer	SMR	MW-6	07/29/99	<15	
8LTN55	Spencer Utilities	Spencer	SMR	MW-10	07/29/99	<15	
8LTN55	Spencer Utilities	Spencer	SMR	EMW-12	07/29/99	<15	
8LTQ49	US Gypsum	Sperry	T1	MW102	07/14/99	<15	
8LTQ49	US Gypsum	Sperry	T1	MW0/MW10	07/14/99	<15	
7LTT03	Springbrook Shop	Springbrook	Tier 2	MW4	08/16/99	<15	
7LTT03	Springbrook Shop	Springbrook	Tier 2	MW5	08/16/99	<15	
7LTT03	Springbrook Shop	Springbrook	Tier 2	MW6	08/16/99	<15	
7LTDW10	Former Mike's Std	Stanhope	99 SMR	MW-1	07/13/99	26.4	
7LTDW10	Former Mike's Std	Stanhope	99 SMR	MW-2	07/13/99	<2	
7LTDW10	Former Mike's Std	Stanhope	99 SMR	MW-3	07/13/99	124	
7LTDW10	Former Mike's Std	Stanhope	99 SMR	MW-4	07/13/99	2170	
7LTDW10	Former Mike's Std	Stanhope	99 SMR	MW-8	07/13/99	<2	
7LTDW10	Former Mike's Std	Stanhope	99 SMR	MW-10	07/13/99	<2	
7LTX72	Home Oil 30	Stanwood	Tier 2	MW-2	09/01/99	<1.0	
7LTX72	Home Oil 30	Stanwood	Tier 2	BH 10@6'	07/21/99	<0.015	
7LTX72	Home Oil 30	Stanwood	Tier 2	BH 11@5'	07/21/99	<0.015	
7LTX72	Home Oil 30	Stanwood	Tier 2	BH 12@5'	07/21/99	<0.034	
7LTX72	Home Oil 30	Stanwood	Tier 2	BH 13@5'	07/21/99	<0.015	
7LTX72	Home Oil 30	Stanwood	Tier 2	BH 14@5'	07/21/99	<0.015	
7LTX72	Home Oil 30	Stanwood	Tier 2	MW-9	07/21/99	40	
7LTX72	Home Oil 30	Stanwood	Tier 2	MW-10	07/21/99	1700	
7LTX72	Home Oil 30	Stanwood	Tier 2	MW-11	07/21/99	<15	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
7LTX72	Home Oil 30	Stanwood	Tier 2	MW-12	07/21/99	<15	
8LTJ55	Stockport Attendance	Stockport	Tier 2	MW 6	09/14/99	<15	
8LTX16	Van Buren County Hospital	Stockport	SMR	MW1	08/25/99	<100	
8LTX16	Van Buren County Hospital	Stockport	SMR	MW3	08/25/99	<1.0	
8LTX16	Van Buren County Hospital	Stockport	SMR	MW4	08/25/99	126	
8LTX16	Van Buren County Hospital	Stockport	SMR	MW5	08/25/99	3.3	
8LTX16	Van Buren County Hospital	Stockport	SMR	MW7	08/25/99	<10	
8LTX16	Van Buren County Hospital	Stockport	SMR	MW9	08/25/99	<100	
8LTX16	Van Buren County Hospital	Stockport	SMR	MW10	08/25/99	<50	
7LTQ21	Kerr McGee	Storm Lake	1999 SMR	MW-7R	10/09/99	<2	none
7LTQ21	Kerr McGee	Storm Lake	1999 SMR	MW-7R	10/09/99	3.5	none
7LTR55	Lyle's Standard	Storm Lake	SMR	MW 3	07/27/99	<10	
7LTR55	Lyle's Standard	Storm Lake	SMR	MW 7	07/27/99	<1.0	
7LTR55	Lyle's Standard	Storm Lake	SMR	MW 8	07/27/99	<1.0	
7LTM64	R-S SCHOOL	STORY CITY	SMR	MW2N	08/13/99	45.4	
7LTM64	R-S SCHOOL	STORY CITY	SMR	MW9	08/13/99	198	TBA 52 UG/L
7LTM64	R-S SCHOOL	STORY CITY	SMR	MW17	08/13/99	317	
8LTA09	United Coop	Stratford	3rd Q SMR	MW-1	07/09/99	14.9	
8LTA09	United Coop	Stratford	3rd Q SMR	MW-4	07/09/99	<2	
8LTA09	United Coop	Stratford	3rd Q SMR	MW-9	07/09/99	<20	
8LTT36	Bill's Quick Shop	Strawberry Point	Tier 2	MW3	07/28/99	762	
8LTT36	Bill's Quick Shop	Strawberry Point	Tier 2	MW6	07/28/99	1280	
8LTT36	Bill's Quick Shop	Strawberry Point	Tier 2	MW12	07/28/99	1610	
7LTU28	Sully Cooperative	Sully	Tier 2	B-18	11/04/99	3030	
7LTU28	Sully Cooperative	Sully	Tier 2	B-19	08/04/99	2050	
7LTU28	Sully Cooperative	Sully	Tier 2	B-12	07/21/99	371	
8LTT97	Car Go Express	Sutherland	Tier 2	MW-1	07/26/99	<20	
8LTT97	Car Go Express	Sutherland	Tier 2	MW-2	07/26/99	<15	
8LTT97	Car Go Express	Sutherland	Tier 2	MW-9	07/26/99	<15	
8LTT97	Car Go Express	Sutherland	Tier 2	MW-10	07/26/99	<15	
8LTT97	Car Go Express	Sutherland	Tier 2	MW-11	07/26/99	<15	
8LTT97	Car Go Express	Sutherland	Tier 2	MW-12	07/26/99	185	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE	
						Groundwater (ug/L)	Comments
8lte98	Murty's Repair	Tama	SMR	MW1	07/06/99	<1	
8lte98	Murty's Repair	Tama	SMR	MW2	07/06/99	<1	
8lte98	Murty's Repair	Tama	SMR	MW33	07/06/99	<1	
8lte98	Murty's Repair	Tama	SMR	MW11	07/06/99	<1	
8lte98	Murty's Repair	Tama	SMR	MW15	07/06/99	<1	
8lte98	Murty's Repair	Tama	SMR	MW1	07/06/99	<1	
8lte98	Murty's Repair	Tama	SMR	MW2	07/06/99	<1	
8lte98	Murty's Repair	Tama	SMR	MW33	07/06/99	<1	
8lte98	Murty's Repair	Tama	SMR	MW11	07/06/99	<1	
8lte98	Murty's Repair	Tama	SMR	MW15	07/06/99	<1	
8LTX29	Alliant Energy	Tama	Pre-RBCA	MW-1	09/24/99	<2	None
8LTX29	Alliant Energy	Tama	Pre-RBCA	MW-2	09/24/99	<2	None
8LTX29	Alliant Energy	Tama	Pre-RBCA	MW-3	09/24/99	<2	None
8LTX29	Alliant Energy	Tama	Pre-RBCA	MW-4	09/24/99	<2	TAME=2.2
8LTX29	Alliant Energy	Tama	Pre-RBCA	MW-6	09/24/99	<2	None
8LTX29	Alliant Energy	Tama	Pre-RBCA	MW-10	09/24/99	<2	None
8LTJ34	Firedman Trucking	Templeton	SMR	BH5	09/22/99	<1.0	
8LTJ34	Firedman Trucking	Templeton	SMR	BH6	09/22/99	<1.0	
8LTJ34	Firedman Trucking	Templeton	SMR	BH8	09/22/99	<1.0	
7LTJ10	Thornton Pronto	Thornton	1st	MW-1	09/15/99	<500	
7LTJ10	Thornton Pronto	Thornton	1st	MW-2	09/15/99	<50	
7LTJ10	Thornton Pronto	Thornton	1st	MW-3	09/15/99	<500	
7LTJ10	Thornton Pronto	Thornton	1st	MW-4	09/15/99	<10	
7LTJ10	Thornton Pronto	Thornton	1st	MW-10	09/15/99	<1	
7LTJ10	Thornton Pronto	Thornton	1st	B-12	09/15/99	<1	
7LTJ10	Thornton Pronto	Thornton	1st	B-13	09/15/99	<1	
8LTX92	Mathews Memorial Airport	Tipton	SMR	MW-3	07/19/99	<1	
8LTX92	Mathews Memorial Airport	Tipton	SMR	MW-4	07/19/99	<1	
8LTX92	Mathews Memorial Airport	Tipton	SMR	MW-5	07/19/99	<1	
8LTX92	Mathews Memorial Airport	Tipton	SMR	MW-8	07/19/99	<1	
8LTR62	Tipton Bus	Tipton	Tier 1 1999	B2/MW2	07/03/99	<15	
8LTR62	Tipton Bus	Tipton	Tier 1 1999	B3/MW3	07/03/99	<15	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTR62	Tipton Bus	Tipton	Tier 1 1999	B4/MW4	07/03/99	<15	
8LTR62	Tipton Bus	Tipton	Tier 1 1999	B5/MW5	07/03/99	<15	
8LTX92	Matthews Airport	Tipton	SMR	MW-3	07/19/99	<1.0	
8LTX92	Matthews Airport	Tipton	SMR	MW-4	07/19/99	<1.0	
8LTX92	Matthews Airport	Tipton	SMR	MW-5	07/19/99	<1.0	
8LTX92	Matthews Airport	Tipton	SMR	MW-8	07/19/99	<1.0	
7LTB21	Tama Co. Shop	Traer	SMR	91262-15 (W)	09/19/99	3.5	NONE
7LTB21	Tama Co. Shop	Traer	SMR	91262-16 (W)	09/19/99	<2	NONE
7LTB21	Tama Co. Shop	Traer	SMR	91262-19 (W)	09/19/99	<2	NONE
7LTB21	Tama Co. Shop	Traer	SMR	91262-13 (W)	09/19/99	<2	NONE
7LTA71	Coastal Mart	Urbandale	SMR-1999	MW-1A	08/30/99	<50	ETBE DETECTED
7LTA71	Coastal Mart	Urbandale	SMR-1999	MW-4A	08/30/99	<200	
7LTA71	Coastal Mart	Urbandale	SMR-1999	MW-2R	09/02/99	<200	
7LTA71	Coastal Mart	Urbandale	SMR-1999	MW-3R	09/02/99	<200	
7LTA71	Coastal Mart	Urbandale	SMR-1999	MW-5R	09/02/99	<200	ETBE DETECTED
7LTH25	4 Sons Handy Shop	Urbandale	RBCA Tier 1	MW-BH-4	08/04/99	<2	None
7LTM79	QuikTrip #547	Urbandale	SMR	MW-3	07/14/99	73.2	
7LTM79	QuikTrip #547	Urbandale	SMR	MW-11	07/14/99	74.5	
7LTM79	QuikTrip #547	Urbandale	SMR	MW-13	07/14/99	<100	
7LTM79	QuikTrip #547	Urbandale	SMR	MW-18	07/14/99	<40	
7LTM79	QuikTrip #547	Urbandale	SMR	MW-20	07/14/99	<2	
8LTB59	Former England Svc	Van Meter	T2	MW1	09/14/99	<10	
8LTB59	Former England Svc	Van Meter	T2	MW2	09/14/99	<1	
8LTB59	Former England Svc	Van Meter	T2	MW10	09/14/99	<1	
7LTQ22	Pronto Mart	Ventura	Tier 2	MW 18	11/01/99	<5.0	
7LTU53	CASEY's General Store	Villisca	Tier 2	MW-2	08/25/99	< 1.0	
7LTU53	CASEY's General Store	Villisca	Tier 2	MW-3	08/25/99	< 1.0	
8LTH49	Coastal Mart	Vinton	SMR-1999	MW-1	08/18/99	<2.0	
8LTH49	Coastal Mart	Vinton	SMR-1999	MW-2	08/18/99	<2.0	
8LTH49	Coastal Mart	Vinton	SMR-1999	MW-3	08/18/99	<2.0	
8LTH49	Coastal Mart	Vinton	SMR-1999	MW-7	08/18/99	<2.0	
8LTH49	Coastal Mart	Vinton	SMR-1999	MW-8	08/18/99	<2.0	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
9LTH82	Pittman	Wall Lake	Tier 2 Rev.	AMW-15	08/17/99	<1.0	None
7LTP49	Home Oil Sinclair	Wapello	Tier 2	MW9	10/28/99	4.6	
8LTD45	L&W Service	Washington	Tier 1	MW1	08/03/99	30	
8LTD45	L&W Service	Washington	Tier 1	MW2	08/03/99	<15	
8LTD45	L&W Service	Washington	Tier 1	MW4	08/03/99	<15	
7LTH67	Washington County Mainte	Washington	SMR	MW-1	09/29/99	8.2	
7LTH67	Washington County Mainte	Washington	SMR	MW-2	09/29/99	<10	
7LTH67	Washington County Mainte	Washington	SMR	MW-5	09/29/99	<5	
7LTH67	Washington County Mainte	Washington	SMR	MW-6	09/29/99	<1.0	
7LTH67	Washington County Mainte	Washington	SMR	MW-13	09/29/99	<1.0	
7LTH67	Washington County Mainte	Washington	SMR	MW-15	09/29/99	19.1	
7lta68	Coastal Mart	Waterloo	SMR-1999	MW-16	08/19/99	<20	
7lta68	Coastal Mart	Waterloo	SMR-1999	MW-18	08/19/99	<10	
7lta68	Coastal Mart	Waterloo	SMR-1999	MW-19	08/19/99	<400	
7lta68	Coastal Mart	Waterloo	SMR-1999	MW-20	08/19/99	<100	
7lta68	Coastal Mart	Waterloo	SMR-1999	MW-24	08/19/99	<20	
7LTC14	Waerco #672	Waterloo	SMR	MW-1	09/09/99	12.7	
7LTC14	Waerco #672	Waterloo	SMR	MW-4	09/09/99	25.8	
7LTC14	Waerco #672	Waterloo	SMR	MW-6	09/09/99	17.8	
7LTC14	Waerco #672	Waterloo	SMR	MW-7	09/09/99	<1.0	
7LTC14	Waerco #672	Waterloo	SMR	MW-14	09/09/99	<1.0	
7LTC14	Waerco #672	Waterloo	SMR	MW-17	09/09/99	<5.0	
7LTC14	Waerco #672	Waterloo	SMR	MW-1	09/09/99	12.7	
7LTC14	Waerco #672	Waterloo	SMR	MW-4	09/09/99	25.8	
7LTC14	Waerco #672	Waterloo	SMR	MW-6	09/09/99	17.8	
7LTC14	Waerco #672	Waterloo	SMR	MW-7	09/09/99	<1.0	
7LTC14	Waerco #672	Waterloo	SMR	MW-14	09/09/99	<1.0	
7LTC14	Waerco #672	Waterloo	SMR	MW-17	09/09/99	<5.0	
7LTD59	QuikTrip #512	Waterloo	SMR	MW-3	10/12/99	172	None
7LTL92	John Deere Engine Works	Waterloo	TIER 2	EMW-3	09/02/99	<2	
7LTL92	John Deere Engine Works	Waterloo	TIER 2	EMW-2	09/02/99	<2	
7LTL92	John Deere Engine Works	Waterloo	TIER 2	MW-4/EB-10	09/02/99	<2	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTL92	John Deere Engine Works	Waterloo	TIER 2	EMW-1A	09/02/99	<2	
7LTL92	John Deere Engine Works	Waterloo	TIER 2	EMW-5	09/02/99	<2	
7LTL92	John Deere Engine Works	Waterloo	TIER 2	MW-1	09/02/99	<2	
7LTL92	John Deere Engine Works	Waterloo	TIER 2	EMW-4	09/02/99	<2	
7LTL92	John Deere Engine Works	Waterloo	TIER 2	MW-2	09/02/99	<2	
7LTL92	John Deere Engine Works	Waterloo	TIER 2	MW-3	09/02/99	<2	
7LTL92	John Deere Engine Works	Waterloo	TIER 2	EMW-1A	09/02/99	<2	
7LTR02	QuikTrip 545	Waterloo	RBCA Tier 1	MW-4	08/06/99	<2	
9LTI23	424 Kingbard	Waterloo	T2-99	MW2	11/17/99	<1	
9LTI23	424 Kingbard	Waterloo	T2-99	MW3	11/17/99	<10	
9LTI23	424 Kingbard	Waterloo	T2-99	MW4	11/17/99	<5	
8LTF77	Docs Stop	Webster	SMR	MW-1	9/12/99	<2	NA
8LTF77	Docs Stop	Webster	SMR	MW-2	9/12/99	<2	NA
8LTF77	Docs Stop	Webster	SMR	MW-3	9/12/99	<2	NA
8LTF77	Docs Stop	Webster	SMR	MW-4	9/12/99	<2	NA
8LTB73	Hippen Tire	Wellsburg	Tier 2	TW-1	09/27/99	7.4	
8LTB73	Hippen Tire	Wellsburg	Tier 2	MW18	09/27/99	<2.0	
8LTW29	Irwin Abels	Wellsburg	T2	MW13	07/28/99	<5	
8LTW29	Irwin Abels	Wellsburg	T2	MW8	07/28/99	<1	
8LTW29	Irwin Abels	Wellsburg	T2	MW3	07/28/99	<1	
8LTW29	Irwin Abels	Wellsburg	T2	MW4	07/28/99	<1	
7LTL35	Nick's Amoco	Welton	Tier 2 1999	MW17	08/04/99	<15	None
7LTL35	Nick's Amoco	Welton	Tier 2 1999	MW18	08/16/99	<15	None
7LTL35	Nick's Amoco	Welton	Tier 2 1999	MW17	08/04/99	<15	None
7LTL35	Nick's Amoco	Welton	Tier 2 1999	MW18	08/16/99	<15	None
7LTJ48	West Branch Oil	West Branch	Pre-RBCA-SMR	MW93-1	09/07/99	<60	
7LTJ48	West Branch Oil	West Branch	Pre-RBCA-SMR	MW94-13	09/07/99	<15	
7LTJ48	West Branch Oil	West Branch	Pre-RBCA-SMR	MW95-15	09/07/99	200	
7LTJ48	West Branch Oil	West Branch	Pre-RBCA-SMR	MW95-16	09/07/99	1100	
7LTJ48	West Branch Oil	West Branch	Pre-RBCA-SMR	MW95-21	09/07/99	<15	
7LTJ48	West Branch Oil	West Branch	Pre-RBCA-SMR	MW3-96	09/07/99	<15	
7LTJ48	West Branch Oil	West Branch	Pre-RBCA-SMR	MW4-96	09/07/99	<150	

**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTO31	Cargill-Nutrena	West Branch	SMR	MW-2	07/19/99	<10	
8LTO31	Cargill-Nutrena	West Branch	SMR	MW-3	07/19/99	<1.0	
8LTO31	Cargill-Nuetrena Feeds	West Branch	SMR	MW-2	07/19/99	<10	Reporting Limit elevated due to matrix interferences
8LTO31	Cargill-Nuetrena Feeds	West Branch	SMR	MW-3	07/19/99	<1	
8LTN39	Churchill Trucking	West Burlington	SMR	EMW-2	07/14/99	<1.0	
8LTN39	Churchill Trucking	West Burlington	SMR	EMW-5	07/14/99	<1.0	
8LTN39	Churchill Trucking	West Burlington	SMR	MW-11	07/14/99	<10	
8LTN39	Churchill Trucking	West Burlington	SMR	MW-13	07/14/99	<1.0	
8LTN39	Churchill Trucking	West Burlington	SMR	MW-14	07/14/99	<1.0	
8LTY94	Siegel's Conoco	West Burlington	SMR	MW-3	07/14/99	65	
8LTY94	Siegel's Conoco	West Burlington	SMR	MW-5	07/14/99	298	
8LTY94	Siegel's Conoco	West Burlington	SMR	MW-6	07/14/99	42.4	
8LTY94	Siegel's Conoco	West Burlington	SMR	MW-11	07/14/99	<1.0	
8LTY94	Siegel's Conoco	West Burlington	SMR	MW-104	07/14/99	<1.0	
8LTZ22	Aldi, Inc.	West Burlington	SMR	MW-3	07/14/99	<1.0	
8LTZ22	Aldi, Inc.	West Burlington	SMR	MW-5	07/14/99	<1.0	
8LTZ22	Aldi, Inc.	West Burlington	SMR	MW-6	07/14/99	<1.0	
8LTZ22	Aldi, Inc.	West Burlington	SMR	MW-7	07/14/99	<1.0	
8LTZ22	Aldi, Inc.	West Burlington	SMR	MW-8	07/14/99	<1.0	
8LTZ22	Aldi, Inc.	West Burlington	SMR	MW-9	07/14/99	<1.0	
8LTZ22	Aldi, Inc.	West Burlington	SMR	MW-10	07/14/99	3.2	
8LTZ22	Aldi, Inc.	West Burlington	SMR	MW-12	07/14/99	<1.0	
8LTZ22	Aldi, Inc.	West Burlington	SMR	MW-13	07/14/99	<1.0	
7LTM04	Hwy 34 Truck Stop	West Burlington	Smr	EMW-5	07/20/99	<1	
7LTM04	Hwy 34 Truck Stop	West Burlington	Smr	MW-12	07/20/99	110	
7LTM04	Hwy 34 Truck Stop	West Burlington	Smr	MW-14	07/20/99	<2	
7LTM04	Hwy 34 Truck Stop	West Burlington	Smr	MW-15	07/20/99	<10	
7LTM04	Hwy 34 Truck Stop	West Burlington	Smr	MW-20	07/20/99	<1	
7LTB19	Lowells Conoco	West Des Moine	T2	MW7	08/11/99	<1	
7LTB19	Lowells Conoco	West Des Moine	T2	MW6	08/11/99	<1	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
7LTB19	Lowells Conoco	West Des Moines	T2	MW8	08/13/99	<5	
8LTI85	WDM Transporation	West Des Moines	T1	MW9	09/01/99	<2	
8LTI85	WDM Transporation	West Des Moines	T1	MW4	09/01/99	<2	
8LTI85	WDM Transporation	West Des Moines	T1	MW6	09/01/99	<1	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	TMW-1	07/27/99	<2.0	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	TMW-2	07/27/99	<100	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	TMW-4	07/27/99	<100	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	MW-5	07/27/99	<2.0	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	MW-7	07/27/99	<2.0	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	MW-13	07/27/99	1330	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	MW-14	07/27/99	<2.0	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	MW-15	07/27/99	<2.0	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	MW-20	07/27/99	<100	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	MW-21	07/27/99	<100	
8LTG18	Coastal Mart	West Des Moines	SMR 1999	MW-22	07/27/99	<4.0	
7LTL76	Sunoco Truck Stop	West Liberty	99 SMR	MW-2	08/04/99	2860	
7LTL76	Sunoco Truck Stop	West Liberty	99 SMR	MW-3	08/04/99	355	
7LTL76	Sunoco Truck Stop	West Liberty	99 SMR	MW-4A	08/04/99	146	
7LTL76	Sunoco Truck Stop	West Liberty	99 SMR	MW-7	08/04/99	2930	
7LTL76	Sunoco Truck Stop	West Liberty	99 SMR	MW-14	08/04/99	<4	
7LTL77	ZipMart	West Liberty	Tier 2	MW-12	08/03/99	7320	TBA @ 3480
8LTD19	Harold's Sinclair	West Point	SMR	MW-A	07/09/99	121	
8LTD19	Harold's Sinclair	West Point	SMR	MW-1	07/09/99	4.6	
8LTD19	Harold's Sinclair	West Point	SMR	MW-2	07/09/99	<1.0	
8LTD19	Harold's Sinclair	West Point	SMR	MW-5	07/09/99	<1.0	
8LTD19	Harold's Sinclair	West Point	SMR	MW-9	07/09/99	28.3	
9LTE03	City of Wheatland	Wheatland	SMR 1999	MW-2	08/11/99	<10	
9LTE03	City of Wheatland	Wheatland	SMR 199	MW-3	08/11/99	<1	
9LTE03	City of Wheatland	Wheatland	SMR 199	MW-4	08/11/99	<1	
9LTE03	City of Wheatland	Wheatland	SMR 199	MW-5	08/11/99	<1	
9LTE03	City of Wheatland	Wheatland	SMR 199	MW-7	08/11/99	<5	
8LTC45	Iowa County Farm Service	Williamsburg	SMR	MW-1A	10/01/99	24.6	



**Table 3. MTBE Results from Groundwater Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Groundwater (ug/L)	Comments
8LTC45	Iowa County Farm Service	Williamsburg	SMR	MW3-A	10/01/99	1050	
8LTC45	Iowa County Farm Service	Williamsburg	SMR	MW12	10/01/99	79.1	
8LTC45	Iowa County Farm Service	Williamsburg	SMR	MW13	10/01/99	125	
7LTL53	Kum & Go #443	Willmsbrg	MW install	MW-22	07/07/99	<1	none
7LTL53	Kum & Go #443	Willmsbrg	MW install	MW-23	07/07/99	62.7	none
8LTF05	Sherwood 66	Windsor	SMR-99	MW-1	09/17/99	5870	NA
8LTF05	Sherwood 66	Windsor	SMR-99	MW-37	09/17/99	186	NA
8LTF05	Sherwood 66	Windsor	SMR-99	MW-38	09/17/99	4240	NA
8LTF05	Sherwood 66	Windsor	SMR-99	MW-39	09/17/99	536	NA
8LTF05	Sherwood 66	Windsor	SMR-99	MW-40	09/17/99	285	NA
8LTF05	Sherwood 66	Windsor	SMR-99	MW-41	09/17/99	24.7	NA
8LTF05	Sherwood 66	Windsor	SMR-99	MW-49	09/17/99	<2	NA
7LTE11	4 Sons Handy Shop	Winterset	Tier 2 1999	MW-3	05/20/99	1200	
7LTE11	4 Sons Handy Shop	Winterset	Tier 2 1999	MW-4A	05/20/99	3740	
7LTE11	4 Sons Handy Shop	Winterset	Tier 2 1999	MW-25	05/20/99	417	
7LTE11	4 Sons Handy Shop	Winterset	Tier 2 1999	MW-26	05/20/99	549	
7LTE11	4 Sons Handy Shop	Winterset	Tier 2 1999	MW-27	05/20/99	395	
7LTE11	4 Sons Handy Shop	Winterset	Tier 2 1999	MW-28	05/20/99	482	
7LTE11	4 Sons Handy Shop	Winterset	Tier 2 1999	MW-29	05/20/99	2740	
7LTD46	former McNear	Woodbine	Sept. 99	MW-1A	09/08/99	< 1.0	
7LTD46	former McNear	Woodbine	Sept. 99	MW-4	09/08/99	< 100	
7LTD46	former McNear	Woodbine	Sept. 99	MW-5	09/08/99	< 20	
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	MW1	08/13/99	7.8	
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	MW2	08/13/99	4	
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	MW3	08/13/99	3	
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	DUP(MW3)	08/13/99	<2	
8LTL60	Yale Elementary School	Yale	SMR	MW-8R	8/24/99	30	
8LTL60	Yale Elementary School	Yale	SMR	MW-9	8/23/99	<2	
8LTL60	Yale Elementary School	Yale	SMR	MW-11	8/23/99	46.1	
8LTL60	Yale Elementary School	Yale	SMR	MW-13	8/23/99	<2	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTJ40	IDOT	Adair	Tier 1	4MWG	08/17/99	<0.015	
7LTJ40	IDOT	Adair	Tier 1	4MWG	08/17/99	<0.015	
8LTR74	Amoco Station 8708	Adair	SMR 1999	MW-4	09/27/1999	<b>1600</b>	
8LTR74	Amoco Station 8708	Adair	SMR 1999	MW-7	09/27/1999	<10	
8LTR74	Amoco Station 8708	Adair	SMR 1999	MW-8	09/27/1999	<10	
8LTR74	Amoco Station 8708	Adair	SMR 1999	MW-10	09/27/1999	<10	
7LTM68	M & D Car Care Center	Agency	SMR 1999	MW-6	09/16/1999	140	
7LTM68	M & D Car Care Center	Agency	SMR 1999	MW-7	09/16/1999	<50	
7LTM68	M & D Car Care Center	Agency	SMR 1999	MW-8	09/16/1999	70	
7LTM68	M & D Car Care Center	Agency	SMR 1999	MW-11	09/16/1999	<10	
7LTM72	Amoco Food Shop	Agency	SMR 1999	MW-2	09/16/1999	NA	
7LTM72	Amoco Food Shop	Agency	SMR 1999	MW-4	09/16/1999	NA	
7LTM72	Amoco Food Shop	Agency	SMR 1999	MW-7	09/16/1999	NA	
8LTI64	Former SE IA Ag Center	Ainsworth	Tier 2	MW2R	7/22/99	<0.015	
8LTI64	Former SE IA Ag Center	Ainsworth	Tier 2	MW-2R	7/22/99	<0.015	
8LTI64	Former SE IA Ag Center	Ainsworth	Tier 2	MW-25	7/22/99	<0.015	
9LIC63	Steward & Sons	Ainsworth	SMR	MW-103	06/30/99	<0.01	
9LIC63	Steward & Sons	Ainsworth	SMR	MW-104	06/30/99	<0.01	
7LYJ64	Amoco Station 5011	Algona	SMR 1999	OW-2	07/22/1999	<10	
7LYJ64	Amoco Station 5011	Algona	SMR 1999	OW-5	07/22/1999	49	
7LYJ64	Amoco Station 5011	Algona	SMR 1999	MW-6	07/22/1999	<10	
7LYJ64	Amoco Station 5011	Algona	SMR 1999	MW-11	07/22/1999	46	
7LYJ64	Amoco Station 5011	Algona	SMR 1999	MW-14	07/22/1999	<250	
7LTB14	Story Co. Secondary Road	Ames	Tier 1	BH-100	09/01/99	<0.01	
7LTC64	Former EZ Mart	Ames	99 SMR	MW-103	10/15/99	<0.4	
7LTJ85	Amoco 8596	Ames	SMR 1999	OW-3	07/15/1999	<1000	
7LTJ85	Amoco 8596	Ames	SMR 1999	OW-4	07/15/1999	<1000	
7LTJ85	Amoco 8596	Ames	SMR 1999	OW-5	07/15/1999	<200	
7LTJ85	Amoco 8596	Ames	SMR 1999	OW-6A	07/15/1999	<1000	
7LTJ85	Amoco 8596	Ames	SMR 1999	OW-7	07/15/1999	<1000	
7LTJ85	Amoco 8596	Ames	SMR 1999	OW-9	07/15/1999	<10	
7LTJ85	Amoco 8596	Ames	SMR 1999	OW-10	07/15/1999	<10	
7LTJ85	Amoco 8596	Ames	SMR 1999	OW-14A	07/15/1999	210	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTJ85	Amoco 8596	Ames	SMR 1999	OW16A	07/15/1999	<10	
7LTJ90	IDOT MG	AMES	TIER1	SB1R	08/16/99	<0.01	
7LTJ90	IDOT MG	AMES	TIER1	DUPSB1R	08/16/99	<0.01	
7LTS71	Amoco ss# 5713	Ames	SMR 1999	MW-6	07/01/1999	115	
7LTS71	Amoco ss# 5713	Ames	SMR 1999	MW-7	07/01/1999	<50	
7LTS71	Amoco ss# 5713	Ames	SMR 1999	MW-9	07/01/1999	<1000	
7LTS71	Amoco ss# 5713	Ames	SMR 1999	MW-13	07/01/1999	<10	
7LTS71	Amoco ss# 5713	Ames	SMR 1999	MW-14	07/01/1999	<10	
8LTM11	Amoco 31764	Ames	SMR 1999	MW-2	07/15/1999	<10	
8LTM11	Amoco 31764	Ames	SMR 1999	MW-9	07/15/1999	<250	
8LTM11	Amoco 31764	Ames	SMR 1999	MW-11	07/15/1999	<10	
8LTM11	Amoco 31764	Ames	SMR 1999	MW-13	07/15/1999	<10	
8LTM11	Amoco 31764	Ames	SMR 1999	MW-15	07/15/1999	<10	
8LTM11	Amoco 31764	Ames	SMR 1999	MW-17	07/15/1999	<10	
8LTM11	Amoco 31764	Ames	SMR 1999	MW-19	07/15/1999	<250	
9LTE76	Kwik Shop #542	Ames	Site Check	MW1@8'	09/08/99	<.02	
9LTE76	Kwik Shop #542	Ames	Site Check	MW2@6'	09/10/99	<.01	
9LTE76	Kwik Shop #542	Ames	Site Check	MW3@7'	09/10/99	<.01	
9LTE76	Kwik Shop #542	Ames	Site Check	BH3@8'	09/09/99	<0.4	
9LTH29	ISU Design Building	Ames	RBCA Tier 1	S1-A/MW-1	07/01/99	<0.01	
9LTH29	ISU Design Building	Ames	RBCA Tier 1	MW-2	07/01/99	<0.01	
9LTH29	ISU Design Building	Ames	RBCA Tier 1	MW-3	07/01/99	<0.01	
8LTT99	JDDMW, Bdlg 3D	Ankeny	Tier 1	MW11-7.5-10	08/19/99	<0.4	
8LTT99	JDDMW, Bdlg 3D	Ankeny	Tier 1	MW11-10-12.5	08/19/99	<0.01	
8LTF56	Coastal Mart	Atlantic	SMR-1999	SG-1/SB-1	09/16/99	<0.4	
8LTH36	Cass County Shop	Atlantic	Tier 2	SB-10	10/07/99	<0.25	
8LTH36	Cass County Shop	Atlantic	Tier 2	SB-11	10/07/99	<0.25	
8LTH36	Cass County Shop	Atlantic	Tier 2	SB-12	10/07/99	<0.25	
8LTH36	Cass County Shop	Atlantic	Tier 2	SB-13	10/07/99	<0.05	
9LTA16	IDOT Maintenance Facility	Atlantic	Tier 1	SB-55	09/15/99	<0.015	
7LTJ41	IDOT M.G.	AVOCA	TIER 1/2	#1-89R	07/19/99	<.2	
7LTJ41	IDOT M.G.	AVOCA	TIER 1/2	#2-89R	07/19/99	<.01	
7LTM51	UNITED SCHOOL	BOONE	TIER 2	SB1R	08/27/99	<0.01	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTM51	UNITED SCHOOL	BOONE	TIER 2	SB1R-2	08/27/99	<2	
7LTM51	UNITED SCHOOL	BOONE	TIER 2	SB1R DUP	08/27/99	<2	
8LTD07	Don's Tire & Service	Brighton	Tier 1	S-5 BH	07/07/99	<0.34	
8LTD07	Don's Tire & Service	Brighton	Tier 1	S-5 BH	07/07/99	<0.34	
7LTG38	Home Oil 18	Burlington	Tier 2	MW 20@7'	08/12/99	<0.015	
7LTL55	Kum & Go #711	Burlington	T2	B12A	08/12/99	<0.75	
7LTL55	Kum & Go #711	Burlington	T2	B12A	08/12/99	<0.30	
7LTL55	Kum & Go #711	Burlington	T2	MW26	08/12/99	<3	
9LTH24	Kwik Star #632	Camanche	Tier 2	MW6	07/21/99	<0.015	
9LTH24	Kwik Star #632	Camanche	Tier 2	MW7	07/21/99	<0.015	
7LTD78	Carlisle School	Carlisle	Tier 1	12MWG - 7'	08/12/99	<0.015	
7LTC15	Winnike & Masching	Carroll	Tier 2	BH100	07/10/99	<0.36	
7LTC15	Winnike & Masching	Carroll	Tier 2	BH100	07/10/99	<0.36	
7LTC15	Winnike & Masching	Carroll	Tier 2	MW30	07/15/99	<0.015	
8LTP99	New Hope Village	Carroll	Tier 1	SV-1	08/06/99	<0.01	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW3	11/03/99	0.022	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW2	11/03/99	<0.015	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW16	11/03/99	<0.34	
7LTM95	Cedar Falls Utilities	Cedar Falls	SMR	MW21	11/03/99	<0.015	
7LTB04	Amoco Station 5691	Cedar Rapids	SMR 1999	MW-9	09/24/1999	48	
7LTB04	Amoco Station 5691	Cedar Rapids	SMR 1999	MW-10	09/24/1999	<10	
7LTC50	Cedar Rapids Airport	Cedar Rapids	Tier 1	RPB11@8'	08/05/99	<0.015	
7LTI39	Amoco 7358	Cedar Rapids	SMR 1999	OW-3	07/10/1999	21	
7LTI39	Amoco 7358	Cedar Rapids	SMR 1999	MW-12	07/10/1999	<10	
7LTI39	Amoco 7358	Cedar Rapids	SMR 1999	MW-13	07/10/1999	<10	
7LTI39	Amoco 7358	Cedar Rapids	SMR 1999	MW-14	07/10/1999	<10	
8LTH83	Westside	Cedar Rapids	Tier1	#1R@5	08/24/99	<0.015	
8LTH83	Westside	Cedar Rapids	Tier1	#1R@11	08/24/99	<0.015	
8LTH83	Westside	Cedar Rapids	Tier1	#1R@13	08/24/99	<0.015	
8LTI45	Amoco No. 5300	Cedar Rapids	Tier 1	OW-2	08/31/1999	<250	
7LTB84	Amoco Station	Centerville	SMR 1999	MW-1	09/15/1999	110	
7LTB84	Amoco Station	Centerville	SMR 1999	MW-5	09/15/1999	<1000	
7LTB84	Amoco Station	Centerville	SMR 1999	MW-11	09/15/1999	<10	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
8TLG38	Irvings Conoco	Chariton	Tier 2	BH203A	07/30/99	<0.015	
8TLG38	Irvings Conoco	Chariton	Tier 2	BH203A	07/30/99	<0.015	
7LTI97	Davis Oil	Charles City	T1	B15	07/08/99	<0.015	
7LTI97	Davis Oil	Charles City	T1	B16	07/08/99	<0.015	
7LTI97	Davis Oil	Charles City	T1	B17	07/08/99	<0.35	
7LTI97	Davis Oil	Charles City	T1	B18	07/09/99	<0.015	
7LTI97	Davis Oil	Charles City	T1	B20	07/27/99	<0.015	
7LTI97	Davis Oil	Charles City	T1	B19	07/27/99	<0.015	
9LTA50	Davico Car Wash	Charles City	T1	BH8	07/16/99	<0.015	
9LTA50	Davico Car Wash	Charles City	T1	BH9	07/16/99	<0.015	
9LTA50	Davico Car Wash	Charles City	T1	B6/MW6	07/16/99	<0.015	
9LTA50	Davico Car Wash	Charles City	T1	B7/MW7	07/16/99	<0.015	
9LTA50	Davico Car Wash	Charles City	T1	BH10	07/16/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-21	09/14/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-22	09/14/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-23	09/14/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-24	09/14/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-25	09/14/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-26	09/15/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-27	09/15/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-28	09/15/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-29	09/15/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-30	09/15/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-31	09/16/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-32	09/16/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-33	09/16/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-34	09/17/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-35	09/17/99	<0.015	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-21	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-22	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-23	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-24	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-25	09/29/99	<15	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTT12	Country Store	Charter Oak	Tier 2	GMW-26	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-27	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-28	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-29	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-30	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-31	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-32	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-33	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-34	09/29/99	<15	
7LTT12	Country Store	Charter Oak	Tier 2	GMW-35	09/29/99	<15	
7LTQ09	Casey's General Store	CHEROKEE	TIER I	SB-3A	07/21/99	<0.01	ETBE, TAME,DIPE, TBA
7LTY29	IDOT Cherokee	Cherokee	Tier 1	B-5A	08/23/99	<0.01	
7LTY29	IDOT Cherokee	Cherokee	Tier 1	B-5A	08/23/99	<0.01	
8LTR55	Hellstern Property	Clarence	Tier 1	SB-1	07/01/99	<0.01	TAME <0.01, DIPE <0.01, TBA <0.25
8LTR55	Hellstern Property	Clarence	Tier 1	MW-1	07/02/99	<0.01	TAME <0.01, DIPE <0.01, TBA <0.25
8LTR55	Hellstern Property	Clarence	Tier 1	MW-2	07/02/99	<0.01	TAME <0.01, DIPE <0.01, TBA <0.25
8LTR55	Hellstern Property	Clarence	Tier 1	MW-2	07/02/99	<0.01	TAME <0.01, DIPE <0.01, TBA <0.25
8LTR55	Hellstern Property	Clarence	Tier 1	MW-3	07/02/99	<0.01	TAME <0.01, DIPE <0.01, TBA <0.25
8LTF47	AIRPORT	CLARINDA	TIER 1	B22R	07/19/99	<.01	
8LTF47	AIRPORT	CLARINDA	TIER 1	DUP-B22R	07/19/99	<.01	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
9LTB72	Amoco Station # 5778	Clarinda	SMR 1999	MW-5	09/28/1999	<50	
9LTB72	Amoco Station # 5778	Clarinda	SMR 1999	MW-6	09/28/1999	<250	
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-10R	07/07/99	<0.01	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-17R	07/06/99	<0.01	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-17R	07/06/99	<0.01	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-121	07/07/99	<0.01	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	MW-122	07/07/99	<0.01	None
8LTU14	Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	SB-1	07/08/99	<0.01	None
7LTU05	DOWNTOWN SHELL	CLINTON	PRE RBCA	B-7@4'	08/12/99	<0.005	
7LTU05	DOWNTOWN SHELL	CLINTON	PRE RBCA	B-8@4'	08/12/99	<0.005	
7LTU05	DOWNTOWN SHELL	CLINTON	PRE RBCA	B-9@11'	08/12/99	<0.005	
7LTU05	DOWNTOWN SHELL	CLINTON	PRE RBCA	B-10@6'	08/12/99	<0.005	
7LTU05	DOWNTOWN SHELL	CLINTON	PRE RBCA	B-11@7'	08/12/99	<0.005	
7LTJ18	Flying J	Clive	Tier 2	MW18	09/23/99	<0.36	
7LTJ18	Flying J	Clive	Tier 2	MW19	09/23/99	<0.36	
7LTJ18	Flying J	Clive	Tier 2	MW20	09/23/99	<0.36	
7LTJ18	Flying J	Clive	Tier 2	MW21	09/23/99	<0.34	
7LTJ18	Flying J	Clive	Tier 2	SB200	09/23/99	<0.36	
7LTI84	Lincoln Sales & Service	Colfax	SMR	SB-101	09/10/99	<0.4	
7LTN97	Colfax APCO	Colfax	Tier 2	BH14-15	09/08/99	<0.015	
7LTN97	Colfax APCO	Colfax	Tier 2	BH15-15	09/08/99	<0.38	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-2	07/08/1999	<50	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-3	07/08/1999	<120	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-4	07/08/1999	<1200	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-5	07/08/1999	<5	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-6	07/09/1999	<500	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-7	07/08/1999	<5	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-9	07/08/1999	<5	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-11	07/08/1999	<250	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-12	07/08/1999	<5	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-13	07/08/1999	82	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-17	07/08/1999	<5	
7LTB93	Amoco #5299	Coralville	SMR 1999	MW-18	07/08/1999	<500	



## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTQ97	QT # 553	Coralville	Tier 2	EB-14A	06/28/99	<0.4	
7LTQ97	QT # 553	Coralville	Tier 2	EB-3A	06/28/99	2.3	
7LTQ97	QT # 553	Coralville	Tier 2	EB-3A	06/28/99	3.9	
8LTC78	Coralville 76	Coralville	Tier 2 Report	EWCR	07/17/99	165	
8LTX93	Amoco # 5671	Coralville	SMR-1999	MW-7	07/08/1999	<500	
8LTX93	Amoco # 5671	Coralville	SMR-1999	MW-12	07/08/1999	6.3	
8LTX93	Amoco # 5671	Coralville	SMR-1999	MW-14	07/08/1999	<500	
8LTX93	Amoco # 5671	Coralville	SMR-1999	MW-16	07/08/1999	<500	
8LTX93	Amoco # 5671	Coralville	SMR-1999	MW-21	07/08/1999	<5	
8LTI17	Amoco Station 5679	Council Bluffs	SMR 1999	MW-1	09/28/1999	<b>1500</b>	
8LTI17	Amoco Station 5679	Council Bluffs	SMR 1999	MW-5	09/28/1999	<b>1500</b>	
8LTI17	Amoco Station 5679	Council Bluffs	SMR 1999	MW-6	09/28/1999	1300	
8LTI17	Amoco Station 5679	Council Bluffs	SMR 1999	MW-7	09/28/1999	140	
8LTI17	Amoco Station 5679	Council Bluffs	SMR 1999	MW-11	09/28/1999	<50	
8LTI17	Amoco Station 5679	Council Bluffs	SMR 1999	MW-12	09/28/1999	<50	
8LTI17	Amoco Station 5679	Council Bluffs	SMR 1999	MW-13	09/28/1999	<50	
7LTP09	Eddy's 611	Council Bluffs	Tier 1	SB-101	07/14/99	<0.05	
7LTP09	Eddy's 611	Council Bluffs	Tier 1	SB-101	07/14/99	<0.05	
8LTM72	Delta	Crescent	T2	MW1B	08/10/99	<0.38	
8LTM72	Delta	Crescent	T2	MW1B	08/10/99	0.48	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-1	07/06/99	<0.015	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-2	07/06/99	<0.37	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-3	07/06/99	<0.015	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-4	07/06/99	<0.015	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-5	07/07/99	<0.015	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-6	07/07/99	<0.015	
8LTS85	Dilts Trucking	Crescent	Tier 2	MW-7	07/07/99	<0.015	
7LTN24	Kum & Go #501	Creston	T2	BH8a 5'	07/07/99	0.008	
7LTN24	Kum & Go #501	Creston	T2	BH8a 8'	07/07/99	<0.015	
7LTR64	Dadaian's 66	Davenport	Tier2	BH1/VP1	06/28/99	<120	
7LTX67	Rejuvenate Davenport	Davenport	Tier1	BH5-5'	08/10/99	<0.015	
7LTX67	Rejuvenate Davenport	Davenport	Tier1	BH5-10'	08/10/99	<0.015	
8LTB05	Coastal Mart	Davenport	SMR-1999	MW-3R	09/24/99	<0.4	



## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
8LTB05	Coastal Mart	Davenport	SMR-1999	BB-1R	09/24/99	<0.01	
8LTB05	Coastal Mart	Davenport	SMR-1999	SG-1	09/24/99	<0.01	
8LTG61	Coastal Mart	Davenport	SMR-1999	MW84-1R	07/20/99	<0.01	
8LTG61	Coastal Mart	Davenport	SMR-1999	SB-5	07/20/99	<0.01	
8LTG61	Coastal Mart	Davenport	SMR-1999	SB-5	07/20/99	<0.01	
8LTV08	Amoco 30675	Davenport	SMR 1999	MW-3	07/07/1999	<25	
8LTV08	Amoco 30675	Davenport	SMR 1999	MW-6	07/07/1999	<5	
8LTV08	Amoco 30675	Davenport	SMR 1999	MW-14	07/07/1999	<50	
8LTV08	Amoco 30675	Davenport	SMR 1999	MW-19	07/07/1999	<5	
9LTC82	Former Dairy Mart #601	Davenport	4th Quarter	MW-7A	10/15/99	<0.05	
9LTC82	Former Dairy Mart #601	Davenport	4th Quarter	MW-7A	10/15/99	0.027	
9LTG38	Rejuvenate Davenport	Davenport	BH1/MW1	BH1/MW1	7/9/99&7/22/99	<0.38	
9LTG38	Rejuvenate Davenport	Davenport	BH2/MW2	BH2/MW2	7/9/99&7/22/99	<0.015	
9LTG38	Rejuvenate Davenport	Davenport	BH3/MW3	BH3/MW3	7/9/99&7/22/99	<0.015	
9LTG38	Rejuvenate Davenport	Davenport	BH1/MW1	BH1/MW1	7/9/99&7/22/99	<0.38	
9LTG38	Rejuvenate Davenport	Davenport	BH2/MW2	BH2/MW2	7/9/99&7/22/99	<0.015	
9LTG38	Rejuvenate Davenport	Davenport	BH3/MW3	BH3/MW3	7/9/99&7/22/99	<0.015	
9LTG38	Rejuvenate Davenport	Davenport	BH1/MW1	BH1/MW1	7/9/99&7/22/99	<0.38	
9LTG38	Rejuvenate Davenport	Davenport	BH2/MW2	BH2/MW2	7/9/99&7/22/99	<0.015	
9LTG38	Rejuvenate Davenport	Davenport	BH3/MW3	BH3/MW3	7/9/99&7/22/99	<0.015	
7LTY71	Amoco Station 6234	Decorah	SMR 1999	MW-2	09/24/1999	<10	
7LTY71	Amoco Station 6234	Decorah	SMR 1999	MW-9	09/24/1999	<10	
7LTY71	Amoco Station 6234	Decorah	SMR 1999	MW-217	09/24/1999	<10	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-1	07/21/1999	<b>&lt;2500</b>	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-4	07/21/1999	<500	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-5	07/21/1999	<10	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-6	07/21/1999	<10	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-7A	07/21/1999	<10	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-17	07/21/1999	<10	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-18	07/21/1999	<50	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-19	07/21/1999	<1000	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-21	07/21/1999	<1000	
7LTC80	Amoco 5613	Denison	SMR 1999	MW-22	07/21/1999	<10	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTC80	Amoco 5613	Denison	SMR 1999	RW-1	07/21/1999	1100	
7LTD21	Amoco 5942	Denison	SMR 1999	MW-3	07/20/1999	<1000	
7LTD21	Amoco 5942	Denison	SMR 1999	MW-6	07/20/1999	<500	
7LTD21	Amoco 5942	Denison	SMR 1999	MW-8	07/20/1999	<1000	
7LTD21	Amoco 5942	Denison	SMR 1999	MW-13	07/20/1999	170	
7LTD21	Amoco 5942	Denison	SMR 1999	MW-25	07/21/1999	<10	
8LTB71	Casey's	Denison	Tier 2	MW-1	08/06/99	<0.01	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-10	07/08/99	<0.015	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-11	07/08/99	<0.015	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-12	07/08/99	<0.015	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-13	07/08/99	<0.015	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-14	07/08/99	<0.015	
9LTF19	Crouse Cartage	Denison	Tier 2	MW-15	07/08/99	<0.015	
7LTA93	2nd Avenue Deli	Des Moines	SMR	Boring 5RR	09/27/99	0.041	
7LTB10	Laws 66	Des Moines	SMR 99	BH-18	07/17/99	<0.02	
7LTB10	Laws 66	Des Moines	SMR 99	BH-19	08/25/99	<0.01	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	12MWG-12'	08/12/99	<0.015	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW22	"	<0.015	
7LTH77	Mr. Bibb's	Des Moines	Tier 1	MW23	"	<0.015	
7LTN68	Quik Trip #527	Des Moines	Tier 1	B-2A	10/25/99	<0.01	
8LTH94	Autorama	Des Moines	T1	WO2B	08/10/99	<0.015	
8LTH94	Autorama	Des Moines	T1	WO2B	08/10/99	<0.015	
8LTH94	Autorama	Des Moines	T1	PF1b	09/01/99	<0.015	
8LTJ13	Sinclair #14019	Des Moines	Tier 1	MW11@6'	09/21/99	<0.01	
8LTJ15	Sinclair	Des Moines	Tier 1	MW-21	07/16/99	0.017	
8LTP93	Amoco # 8584	Des Moines	SMR-1999	MW-4	07/01/1999	<b>1610</b>	
8LTP93	Amoco # 8584	Des Moines	SMR-1999	MW-5	07/01/1999	440	
8LTP93	Amoco # 8584	Des Moines	SMR-1999	MW-6	07/01/1999	<b>2460</b>	
8LTP93	Amoco # 8584	Des Moines	SMR-1999	MW-12	07/01/1999	212	
8LTZ23	Quik Trip 551	Des Moines	Tier 1	SB-106	07/28/99	<0.01	
8LTZ25	Ralph's Parking Lot	Des Moines	Tier 1	MW-8	09/08/99	<0.4	
8LTZ25	Ralph's Parking Lot	Des Moines	Tier 1	MW-9	09/08/99	<0.01	
8LTZ25	Ralph's Parking Lot	Des Moines	Tier 1	MW-10	09/08/99	<0.01	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
9LTD48	Seneca Corp.	Des Moines	Tier 2	BH 2a	10/24/99	<0.015	
9LTD48	Seneca Corp.	Des Moines	Tier 2	BH 2b	10/24/99	<0.015	
9LTD48	Seneca Corp.	Des Moines	Tier 2	BH 4a	10/17/99	<0.36	
9LTD48	Seneca Corp.	Des Moines	Tier 2	BH 4b	10/17/99	<0.36	
9LTD48	Seneca Corp.	Des Moines	Tier 2	BH 5a	10/17/99	<0.015	
9LTD48	Seneca Corp.	Des Moines	Tier 2	BH 5b	10/17/99	<0.36	
9LTE83	2705 Grand	Des Moines	Tier 1	MW-1	08/19/99	<0.01	
9LTE83	2705 Grand	Des Moines	Tier 1	MW-2	08/19/99	<0.01	
9LTE83	2705 Grand	Des Moines	Tier 1	MW-3	08/19/99	<0.01	
9LTE83	2705 Grand	Des Moines	Tier 1	B-1	08/19/99	<0.01	
9LTE83	2705 Grand	Des Moines	Tier 1	B-2	08/19/99	<0.01	
9LTH48	Former Station	Des Moines	Tier 1	MW-101	07/13/99	<0.050	
9LTH48	Former Station	Des Moines	Tier 1	MW-102	07/13/99	<0.050	
9LTH48	Former Station	Des Moines	Tier 1	MW-101	07/13/99	<0.050	
9LTH48	Former Station	Des Moines	Tier 1	MW-102	07/13/99	<0.050	
7LTY61	UOMHS	Des Moines	T1	SG1	10/14/99	<0.015	
7LTJ72	Amoco Station 5096	Des Moines	SMR 1999	MW-5	09/26/1999	1300	
7LTJ72	Amoco Station 5096	Des Moines	SMR 1999	MW-11	09/26/1999	49	
7LTJ72	Amoco Station 5096	Des Moines	SMR 1999	MW-13	09/26/1999	<10	
7LTJ72	Amoco Station 5096	Des Moines	SMR 1999	MW-14	09/26/1999	<10	
7LTJ72	Amoco Station 5096	Des Moines	SMR 1999	MW-16	09/26/1999	<250	
9LTH86	Shulan	Dubuque	Tier 1	B-7	08/09/99	<0.015	
9LTH86	Shulan	Dubuque	Tier 1	B-8	08/09/99	<0.015	
9LTH86	Shulan	Dubuque	Tier 1	B-9	08/09/99	<0.015	
9LTH86	Shulan	Dubuque	Tier 1	B-10	08/09/99	<0.015	
9LTA24	IDOT Dyersville Maintanan	Dyersville	Tier 2	TMW6	07/22/99	<0.015	
9LTB94	Docs Stop 6	Eagle Grove	Tier-2	VMW-1	08/11/99	<0.8	NA
9LTB94	Docs Stop 6	Eagle Grove	Tier-2	S-1	08/10/99	<0.01	NA
9LTB94	Docs Stop 6	Eagle Grove	Tier-2	S-2	08/10/99	<0.01	NA
9LTB94	Docs Stop 6	Eagle Grove	Tier-2	S-3	08/10/99	<0.01	NA
9LTB94	Docs Stop 6	Eagle Grove	Tier-2	S-4	08/10/99	<0.01	NA
9LTB94	Docs Stop 6	Eagle Grove	Tier-2	S-5	08/10/99	<0.01	NA
9LTB94	Docs Stop 6	Eagle Grove	Tier-2	S-6	08/10/99	<0.01	NA

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
8LTP66	Winnebago Airport	Forest City	SMR-1999	MW-401	07/28/99	<0.05	
8LTF57	Fort Dodge	Fort Dodge	Tier 2	SB-1	09/13/99	<0.4	
8LTU50	Kum & Go #88	Fort Dodge	Tier 1	MW-12	09/03/99	<0.34	
7LTQ82	AMPRIDE	Fort Dodge	TIER 2	SB27R	08/27/99	<0.4	
7LTQ82	AMPRIDE	Fort Dodge	TIER 2	SB27R-DUP	08/27/99	<0.4	
7LTH43	Amoco Station # 20185	Fort Madison	SMR 1999	OW-3	09/29/1999	<10	
7LTH43	Amoco Station # 20185	Fort Madison	SMR 1999	OW-4	09/29/1999	<250	
7LTH43	Amoco Station # 20185	Fort Madison	SMR 1999	OW-5	09/29/1999	260	
7LTH43	Amoco Station # 20185	Fort Madison	SMR 1999	OW-6	09/29/1999	<250	
7LTH43	Amoco Station # 20185	Fort Madison	SMR 1999	OW-7	09/29/1999	<10	
7LTH43	Amoco Station # 20185	Fort Madison	SMR 1999	MW-8	09/29/1999	150	
7LTH43	Amoco Station # 20185	Fort Madison	SMR 1999	MW-12	09/29/1999	280	
7LTH43	Amoco Station # 20185	Fort Madison	SMR 1999	MW-14	09/29/1999	<10	
7LTH43	Amoco Station # 20185	Fort Madison	SMR 1999	MW-16	09/29/1999	<10	
9LTH88	GTE	Grinnell	Tier 1	SB-1 7'	08/19/99	<0.015	
9LTH88	GTE	Grinnell	Tier 1	SB-2 5.5'	08/19/99	<0.015	
9LTH88	GTE	Grinnell	Tier 1	SB-3 5.5'	08/19/99	<0.015	
7LTH02	Sandbothe Firestone	Griswold	SMR	MW-B	09/09/99	0.38	
8LTJ59	Mickel's Rest.	Harlan	Tier 1 1999	MW-1	07/14/99	<0.015	
8LTJ59	Mickel's Rest	Harlan	Tier 1 1999	MW-2	07/14/99	<0.36	
8LTJ59	Mickel's Rest	Harlan	Tier 1 1999	MW-3	07/14/99	<0.015	
9LTD34	Snider's Auto	Hartley	Tier-2	MW-1, 4.5-7'	09/09/99	<015	
9LTD34	Snider's Auto	Hartley	Tier-2	MW-2, 7-9.5'	09/09/99	<015	
8LTG46	Medora Store	Indianola	Tier 2	BH10-7	08/11/99	<0.015	
8LTG46	Medora Store	Indianola	Tier 2	BH11-5	08/11/99	<0.38	
8LTG46	Medora Store	Indianola	Tier 2	BH12-7	08/11/99	<0.015	
8LTG46	Medora Store	Indianola	Tier 2	BH13-6	08/11/99	<0.015	
8LTG46	Medora Store	Indianola	Tier 2	BH14-5	09/03/99	<0.015	
7LTR03	QuikTrip 539	Iowa City	Tier 1	B-6B	10/04/99	<0.01	
7LTR03	QuikTrip 539	Iowa City	Tier 1	B-6B	10/04/99	0.068	
8LTI74	Johnson County	Iowa City	Tier2	BH14	08/25/99	<0.15	
7LTB24	Sinkey Garage	Ireton	SMR	MW-11	09/29/99	<.38	
8LTC39	Petersen Grain	Jacksonville	99 smr	MW-16	8/24/99	<0.4	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
8LTC39	Petersen Grain	Jacksonville	99 smr	MW-16	8/24/99	<0.01	
7LTO95	caseys store	Jewell	Tier 2	BH200 - 10'	07/13/99	<0.36	
7LTO95	caseys store	Jewell	Tier 2	BH200 - 11'	07/13/99	<0.057	
8LTT27	4 Corners Feed	Johnston	Tier 2	94512-16(10)	07/15/99	<0.01	NONE
7LTF92	BIDDY'S SINCLAIR	KEOKUK	RBCA TIER 1	B23@5'	08/31/99	<0.005	
7LTF92	BIDDY'S SINCLAIR	KEOKUK	RBCA TIER 1	B23@9'	08/31/99	<0.005	
7LTF92	BIDDY'S SINCLAIR	KEOKUK	RBCA TIER 1	B24@5'	08/31/99	<0.005	
7LTF92	BIDDY'S SINCLAIR	KEOKUK	RBCA TIER 1	B24@9'	08/31/99	<0.005	
7LTF92	BIDDY'S SINCLAIR	KEOKUK	RBCA TIER 1	B25@8'	08/31/99	<0.005	
8LTG90	Frmr Coastal	Keokuk	Tier 2	MW17-7-8	08/03/99	<0.36	
8LTG90	Frmr Coastal	Keokuk	Tier 2	MW17-8-10	08/03/99	<0.38	
8LTG90	Frmr Coastal	Keokuk	Tier 2	MW18-4-7	08/03/99	0.086	
8LTG90	Frmr Coastal	Keokuk	Tier 2	MW18-10-13	08/03/99	<0.015	
7LTP04	Central Counties	Laurel	Tier-2	23-BH	07/31/99	<0.01	NA
8LTD63	LeMars Truck Stop	LeMars	Tier 2	SB-6, 5"	07/08/99	<15	
8LTD63	LeMars Truck Stop	LeMars	Tier 2	SB-6, 24.5'-27'	07/08/99	<15	
8LTI09	LeMars Airport	LeMars	Tier 2	SB-8, 9.5-12	08/17/99	<0.015	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-5	07/21/99	< 0.015	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-6	07/21/99	< 0.015	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-7	07/21/99	< 0.015	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-8	07/19/99	< 0.015	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	MWS-9	07/20/99	< 0.015	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	SGS-1	07/20/99	< 0.015	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	SGS-1	07/20/99	< 0.015	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	SGS-2	07/20/99	< 0.015	
9LTC02	Former Sunoco	LeMars	Tier 2 1999	SGS-3	07/20/99	< 0.015	
8LTU22	IDOT	Leon	Tier 1	PL2-GW	08/19/99	<0.015	
8LTU22	IDOT	Leon	Tier 1	PL2-GW	08/19/99	<0.015	
8LTH18	Seely Oil Company	Logan	Tier 2	MW-9	08/26/99	<0.01	
8LTH18	Seely Oil Company	Logan	Tier 2	MW-11	08/26/99	<50	
8LTH18	Seely Oil Company	Logan	Tier 2	SB-101	08/26/99	<b>&lt;5,000</b>	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-1	07/25/1999	<1000	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-4	07/25/1999	<1000	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-6	07/25/1999	<10	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-7	07/25/1999	<10	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-214	07/26/1999	<10	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-215	07/25/1999	<100	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-216	07/26/1999	110	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-217	07/26/1999	250	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-218	07/26/1999	15	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-219	07/25/1999	13	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-221	07/25/1999	<500	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-222	07/25/1999	<50	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-224	07/25/1999	<10	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-226	07/26/1999	<10	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	MW-231	07/26/1999	<10	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	RW-1	07/25/1999	20	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	RW-2	07/25/1999	<10	
7LTA03	Amoco 5012	Marshalltown	SMR 1999	RW-3	07/25/1999	<1000	
7LTN21	Kum & Go #703	Marshalltown	SMR	BH 14B	07/07/99	<0.015	
7LTX77	Amoco Station 8583	Marshalltown	SMR 1999	MW-2	09/25/1999	<2	
7LTX77	Amoco Station 8583	Marshalltown	SMR 1999	MW-7	09/25/1999	<10	
7LTX77	Amoco Station 8583	Marshalltown	SMR 1999	MW-8	09/25/1999	<10	
7LTX77	Amoco Station 8583	Marshalltown	SMR 1999	MW-10	09/25/1999	<500	
7LTX77	Amoco Station 8583	Marshalltown	SMR 1999	MW-12	09/25/1999	<10	
7LTX77	Amoco Station 8583	Marshalltown	SMR 1999	MW-13	09/25/1999	380	
7LTX77	Amoco Station 8583	Marshalltown	SMR 1999	MW-16	09/25/1999	<10	
7LTX77	Amoco Station 8583	Marshalltown	SMR 1999	MW-18	09/25/1999	<10	
8LTE86	Former FINA 9530	Marshalltown	Tier 2	MW-13	08/30/99	< 0.005	
8LTE86	Former FINA 9530	Marshalltown	Tier 2	SG-1	08/30/99	< 0.005	
8LTE86	Former FINA 9530	Marshalltown	Tier 2	SG-2	08/30/99	< 0.005	
8LTS98	IDOT	Martensdale	Tier 2	SB-101	09/23/99	<0.050	
8LTS98	IDOT	Martensdale	Tier 2	SB-101	09/23/99	<0.050	
7LTY17	Amoco #5005	Mason City	SMR-1999	MW-9	07/23/99	<1000	
7LTY17	Amoco #5005	Mason City	SMR-1999	MW-11	07/23/99	<10	



## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTY17	Amoco #5005	Mason City	SMR-1999	MW-13	07/23/99	<10	
7LTY17	Amoco #5005	Mason City	SMR-1999	MW-16	07/23/99	<10	
7LTY17	Amoco #5005	Mason City	SMR-1999	MW-20	07/23/99	30	
7LTY53	Amoco 8679	Mason City	SMR-1999	MW-2	07/24/1999	<250	
7LTY53	Amoco 8679	Mason City	SMR-1999	MW-14	07/24/1999	<50	
7LTY53	Amoco 8679	Mason City	SMR-1999	MW-17	07/24/1999	<10	
7LTY53	Amoco 8679	Mason City	SMR-1999	MW-21	07/24/1999	<10	
7LTY53	Amoco 8679	Mason City	SMR-1999	MW-27	07/24/1999	<50	
8LTS90	Amoco 5757	Mason City	RBCA	MW-1R	07/23/1999	<500	
8LTS90	Amoco 5757	Mason City	RBCA	MW-1	10/06/1999	<10	
8LTS90	Amoco 5757	Mason City	RBCA	MW-2R	07/23/1999	<250	
8LTS90	Amoco 5757	Mason City	RBCA	MW-3	07/23/1999	<250	
8LTS90	Amoco 5757	Mason City	RBCA	MW-6	07/23/1999	<50	
8LTS90	Amoco 5757	Mason City	RBCA	MW-8	07/23/1999	<50	
8LTS90	Amoco 5757	Mason City	RBCA	MW-9	07/23/1999	<10	
8LTS90	Amoco 5757	Mason City	RBCA	MW-11	07/23/1999	<250	
8LTS90	Amoco 5757	Mason City	RBCA	MW-12	07/23/1999	<50	
8LTS90	Amoco 5757	Mason City	RBCA	MW-13	07/23/1999	<50	
8LTS90	Amoco 5757	Mason City	RBCA	MW-14	10/06/1999	<10	
8LTS90	Amoco 5757	Mason City	RBCA	MW-16	10/06/999	16	
8LTS90	Amoco 5757	Mason City	RBCA	MW-17	10/06/1999	<10	
8LTS90	Amoco 5757	Mason City	RBCA	MW-19	10/06/1999	<10	
8LTS90	Amoco 5757	Mason City	RBCA	MW-21	10/06/1999	<10	
7LTU32	Brodersen Oil Co.	Monroe	Tier-2	MW-7	07/14/99	<0.2	NA
7LTU32	Brodersen Oil Co.	Monroe	Tier-2	MW-7	07/14/99	<0.2	NA
7LTU32	Brodersen Oil Co.	Monroe	Tier-2	BH-8	10/06/99	<0.01	NA
7LTU32	Brodersen Oil Co.	Monroe	Tier-2	MW-8	10/09/99	<0.02	NA
8LTI75	Dugan's Conoco	Mount Ayr	T2	MW-101	09/08/99	<10	
8LTI75	Dugan's Conoco	Mount Ayr	T2	MW-101	09/08/99	<1	
7LTT76	Dickeys Texaco	Mount Pleasant	Tier 2	246328	07/30/99	<0.015	
7LTE90	Amoco 8767	Muscatine	SMR 1999	MW-17A	07/06/1999	18	
7LTE90	Amoco 8767	Muscatine	SMR 1999	MW-37	07/06/1999	<5	
7LTE90	Amoco 8767	Muscatine	SMR 1999	MW-39	07/06/1999	<5	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTE90	Amoco 8767	Muscatine	SMR 1999	MW-46	07/06/1999	<b>&lt;5000</b>	
7LTE90	Amoco 8767	Muscatine	SMR 1999	MW-52	07/06/1999	<5	
8LTP41	Ryerson Implement Co.	Nevada	SMR 99	MW-11	09/17/99	<0.001	NA
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	MW-6A	08/31/99	<0.01	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	MW-6A	08/31/99	<0.4	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	MW-14	11/09/99	<0.01	
8LTM13	Story Co. Nevada Shop	Nevada	Tier 1	MW-14	11/09/99	<0.01	
7LTO57	Home Oil #28	Newton	Tier 2	SG2 @10'	08/16/99	<0.36	
7LTO57	Home Oil #28	Newton	Tier 2	SG3 @ 10'	08/17/99	<0.36	
7LTO57	Home Oil #28	Newton	Tier 2	MW-20 @ 5'	07/15/99	<0.015	
7LTL86	D&J Taylor Oil	Oakland	Tier 1	B-30	07/09/99	<0.015	
8LTP68	Ocheyedan Construction C	Ocheyedan	Tier 1 1999	SB-1 @ 8'	07/10/99	<0.38	
8LTP68	Ocheyedan Construction C	Ocheyedan	Tier 1 1999	SB-1 @ 10'	07/10/99	<0.38	
7LTC89	Albia Road Amoco	Ottumwa	SMR 1999	MW-2	09/22/1999	<50	
7LTC89	Albia Road Amoco	Ottumwa	SMR 1999	MW-4	09/22/1999	31.6	
7LTC89	Albia Road Amoco	Ottumwa	SMR 1999	MW-5	09/22/1999	<b>&lt;5000</b>	
7LTC89	Albia Road Amoco	Ottumwa	SMR 1999	MW-9	09/22/1999	<10	
7LTC89	Albia Road Amoco	Ottumwa	SMR 1999	MW-13	09/22/1999	192	
7LTK01	Amoco Food Shop	Ottumwa	SMR 1999	MW-2	09/22/1999	<50	
7LTK01	Amoco Food Shop	Ottumwa	SMR 1999	MW-8-94	09/22/1999	<500	
7LTK01	Amoco Food Shop	Ottumwa	SMR 1999	MW-12-94	09/22/1999	<250	
7LTK01	Amoco Food Shop	Ottumwa	SMR 1999	MW-13	09/22/1999	<250	
7LTM73	Amoco Service Station- EL	Ottumwa	SMR 1999	MW-2-94	09/23/1999	NA	
7LTM73	Amoco Service Station- EL	Ottumwa	SMR 1999	MW-4-94	09/23/1999	NA	
7LTM73	Amoco Service Station- EL	Ottumwa	SMR 1999	MW-12-96	09/23/1999	NA	
7LTM73	Amoco Service Station- EL	Ottumwa	SMR 1999	MW-2-94	09/23/1999	NA	
7LTM73	Amoco Service Station- EL	Ottumwa	SMR 1999	MW-4-94	09/23/1999	NA	
7LTM73	Amoco Service Station- EL	Ottumwa	SMR 1999	MW-12-96	09/23/1999	<10	
7LTM74	Amoco Food Stop	Ottumwa	SMR 1999	MW-2-94	09/23/1999	<10	
7LTM74	Amoco Food Stop	Ottumwa	SMR 1999	MW-3-94	09/23/1999	<100	
7LTM74	Amoco Food Stop	Ottumwa	SMR 1999	MW-5	09/23/1999	<10	
7LTM74	Amoco Food Stop	Ottumwa	SMR 1999	MW-11	09/23/1999	1210	
7LTM76	Amoco Food Shop	Ottumwa	SMR 1999	MW-2-94	08/31/1999	<10	



## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTM76	Amoco Food Shop	Ottumwa	SMR 1999	MW-6-94	08/31/1999	50	
7LTM76	Amoco Food Shop	Ottumwa	SMR 1999	MW-7-94	08/31/1999	98	
7LTM76	Amoco Food Shop	Ottumwa	SMR 1999	MW-8-94	08/31/1999	<250	
7LTM76	Amoco Food Shop	Ottumwa	SMR 1999	MW-11-94	08/31/1999	<100	
7LTM76	Amoco Food Shop	Ottumwa	SMR 1999	MW-103	08/31/1999	80	
7LTM76	Amoco Food Shop	Ottumwa	Tier 2	Tap 1	08/19/99	<10	
9LTD47	Here & Now	Ottumwa	Tier-2	MW-10	08/07/99	<0.4	
7LTM70	Eastgate Amoco	Ottumwa	SMR 1999	MW-2-94	09/23/1999	<10	
7LTM70	Eastgate Amoco	Ottumwa	SMR 1999	MW-15-94	09/23/1999	<10	
7LTM70	Eastgate Amoco	Ottumwa	SMR 1999	MW-16-94	09/23/1999	74	
8LTL58	City Hall - Panora	Panora	Tier 1	SG-1	08/26/99	<0.34	
9LTH84	Wagoner	Parkersburg	Tier 1 1999	B-1-4	10/14/99	<0.36	
9LTH84	Wagoner	Parkersburg	Tier 1 1999	B-2-6	10/14/99	<0.36	
9LTH84	Wagoner	Parkersburg	Tier 1 1999	B-3-7	10/15/99	<0.015	
8LTT19	Bauer Built Tier	Perry	Soil Confirm.	TB-11	07/08/99	<0.015	
9LTG37	Chenet Residence	Pershing	Tier 1	MW1	09/22/99	<0.015	
9LTG37	Chenet Residence	Pershing	Tier 1	MW2	09/22/99	<0.015	
9LTG37	Chenet Residence	Pershing	Tier 1	MW3	09/22/99	<0.015	
9LTH28	Schneider Motor	Postville	T2R-99	MW-5	08/26/99	<0.015	
9LTH15	Larry's Skelly	Readlyn	T2R-99	B-8	07/27/99	<0.015	
9LTD95	Amoco No. 20202	Red Oak	Tier 1	MW-27	10/07/1999	<100	
9LTG28	Plymouth County Tire Con	Remsen	Tier 2	MW-9	07/08/99	<0.015	
9LTG28	Plymouth County Tire Con	Remsen	Tier 2	MW-10	07/08/99	<0.34	
9LTG28	Plymouth County Tire Con	Remsen	Tier 2	MW-11	07/08/99	<0.015	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	B-7r	10/05/99	<1	
7LTJ08	Shull Hardware	Riverton	pre-RBCA SMR	MW-3r	10/05/99	<1	
7LTA55	IDOT	Rock Rapids	SMR	W. wall @ 12'	07/14/99	<0.01	
7LTA55	IDOT	Rock Rapids	SMR	Bottom E. @ 24'	07/14/99	<0.01	
7LTA55	IDOT	Rock Rapids	SMR	Bottom W. @ 22'	07/14/99	<0.01	
7LTA55	IDOT	Rock Rapids	SMR	N. wall @ 13'	07/14/99	<0.01	
7LTA55	IDOT	Rock Rapids	SMR	S. wall @ 15'	07/14/99	<0.01	
7LTA55	IDOT	Rock Rapids	SMR	E. wall @ 13"	07/14/99	<0.01	
7LTS62	Community Oil Company	Rock Valley	Tier 1	SB-12	08/17/99	<0.015	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTQ63	Bode's Service	Schaller	Tier 2	MW-9	07/13/99	< 0.015	
7LTQ22	Cecil's Conoco	Shenandoah	Tier 2	BH 27	10/11/99	<0.015	
7LTQ22	Cecil's Conoco	Shenandoah	Tier 2	BH 28	10/11/99	<0.015	
7LTW89	Casey's Store	Shenandoah	Tier 2	BH-30 17'	08/30/99	<0.015	
8LTG80	Coastal Mart	Shenandoah	SMR-1999	SG-1/SB-1	09/14/99	<0.4	
8LTG80	Coastal Mart	Shenandoah	SMR-1999	SG-1/SB-1	09/14/99	<0.4	
8LTI29	Osceola County Maintenance	Sibley	Tier 1 @ 9'	SB-2	07/10/99	<0.015	
7LTG36	Building 941	Sioux City	Tier 2	TE-941-S3	08/11/1999	<0.38	sampling location TE-941-S5 not surveyed
7LTG36	Building 941	Sioux City	Tier 2	TE-941-S4	08/10/1999	<0.38	
7LTG36	Building 941	Sioux City	Tier 2	TE-941-S5	08/10/1999	<0.015	
7LTG36	Building 941	Sioux City	Tier 2	TE-941-S6	08/11/1999	<0.34	laboratory states that, in some cases, higher detection limits are due
7LTG36	Building 941	Sioux City	Tier 2	TE-941-S7	08/11/1999	<0.015	
7LTG36	Building 941	Sioux City	Tier 2	TE-941-S3dup	08/11/1999	<0.36	
7LTL81	Wilburt Vault	Sioux City	Tier 1	SB-1	07/28/99	<8.16	
8LTZ70	Fabricators	Sioux City	SMR	MW12-30'	08/23/99	<0.015	sampling locations not surveyed (elevations estimated) - laboratory states that,
9LTF28	AMW-18	Sioux City	Tier 1	TE-18-S1	08/10/1999	<0.015	
9LTF28	AMW-18	Sioux City	Tier 1	TE-18-S2	08/10/1999	<0.015	
9LTF28	AMW-18	Sioux City	Tier 1	TE-18-S3	08/11/1999	<0.36	
9LTF28	AMW-18	Sioux City	Tier 1	TE-18-S3	08/10/1999	<0.34	
9LTH63	2017 E.3rd St	Sioux City	TIER1	MW2	08/03/99	<0.15	
9LTH63	2017 E.3rd St	Sioux City	TIER1	MW3	08/03/99	<0.15	
9LTH63	2017 E.3rd St	Sioux City	TIER1	MW4	08/30/99	0.34	
8LTQ49	US Gypsum	Sperry	T1	BH21@3	07/14/99	<0.015	
8LTQ49	US Gypsum	Sperry	T1	BH21@5.5	07/14/99	<0.015	
7LTT03	Springbrook Shop	Springbrook	Tier 2	MW4@11	08/04/99	<0.015	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTT03	Springbrook Shop	Springbrook	Tier 2	MW5@6	08/04/99	<0.015	
7LTT03	Springbrook Shop	Springbrook	Tier 2	MW6@6	08/04/99	<0.015	
8LTJ55	Stockport Attendance	Stockport	Tier 2	BH5R @ 6.5'	09/21/99	<0.015	
8LTJ55	Stockport Attendance	Stockport	Tier 2	BH5R @ 8'	09/21/99	<0.015	
7LTJ55	Storm Lake Country Store	Storm Lake	Tier 2	MW-201	07/14/99	<0.050	
8LTT36	Bill's Quick Shop	Strawberry Point	Tier 2	MW12	07/28/99	<.015	
8LTT36	Bill's Quick Shop	Strawberry Point	Tier 2	MW12	07/28/99	<.015	
8LTT36	Bill's Quick Shop	Strawberry Point	Tier 2	MW12	07/28/99	2.44	
7LTA42	Amoco #8623	Stuart	SMR 1999	MW-1	07/13/1999	<10	
7LTA42	Amoco #8623	Stuart	SMR 1999	MW-3	07/13/1999	<1000	
7LTA42	Amoco #8623	Stuart	SMR 1999	MW-8	07/13/1999	<b>&lt;2000</b>	
7LTA42	Amoco #8623	Stuart	SMR 1999	MW-9	07/13/1999	<250	
7LTA42	Amoco #8623	Stuart	SMR 1999	MW-10	07/13/1999	92	
7LTA42	Amoco #8623	Stuart	SMR 1999	MW-11	07/13/1999	<10	
7LTA42	Amoco #8623	Stuart	SMR 1999	MW-12	07/13/1999	<50	
7LTA42	Amoco #8623	Stuart	SMR 1999	MW-24	07/13/1999	<500	
7LTA42	Amoco #8623	Stuart	SMR 1999	SB-1/MW-33	07/13/1999	310	
7LTA42	Amoco #8623	Stuart	Tier 2 (revised)	SB-1/MW-33	09/27/1999	940	
8LTB59	Former England Svc	Van Meter	T2	B8b1	09/08/99	<0.36	
8LTB59	Former England Svc	Van Meter	T2	B8b2	09/08/99	<0.015	
7LTU53	CASEY's General Store	Villisca	Tier 2	SB-A	08/25/99	< 0.36	
7LTU53	CASEY's General Store	Villisca	Tier 2	SB-A	08/25/99	< 0.015	
7LTU53	CASEY's General Store	Villisca	Tier 2	SB-B	08/25/99	< 0.015	
9LTH82	Pittman	Wall Lake	Tier 2 Rev.	AMW-15	08/17/99	<0.015	None
8LTD45	L&W Service	Washington	Tier 1	B7R@5'	07/27/99	<0.30	
8LTD45	L&W Service	Washington	Tier 1	B7R@7'	07/27/99	<0.30	
8LTD45	L&W Service	Washington	Tier 1	B10@7'	07/27/99	<0.015	
7LTR02	QuikTrip 545	Waterloo	RBCA Tier 1	B-6A	07/26/99	<0.01	
8LTU51	Small Engine Repair	Waterloo	Excavation	S-1	08/17/99	<0.01	Sample elevations
8LTU51	Small Engine Repair	Waterloo	Excavation	S-5	08/17/99	<0.01	are in feet below
8LTU51	Small Engine Repair	Waterloo	Excavation	S-6	08/17/99	<0.4	ground surface
8LTU51	Small Engine Repair	Waterloo	Excavation	S-8	08/17/99	<0.01	as sample

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
8LTU51	Small Engine Repair	Waterloo	Excavation	S-10	08/17/99	<0.01	locations were not
8LTU51	Small Engine Repair	Waterloo	Excavation	S-13	08/17/99	<0.4	surveyed to feet Sample elevations are in feet below ground surface as sample locations were not surveyed to feet ASL.
8LTY73	Priebe Oil	Waterloo	Excavation	S-2	08/16/99	<0.01	
8LTY73	Priebe Oil	Waterloo	Excavation	S-5	08/16/99	<0.01	
8LTY73	Priebe Oil	Waterloo	Excavation	S-6	08/16/99	<0.4	
8LTY73	Priebe Oil	Waterloo	Excavation	S-9	08/16/99	<0.01	
8LTY73	Priebe Oil	Waterloo	Excavation	S-16	08/16/99	<0.4	
8LTY73	Priebe Oil	Waterloo	Excavation	S18	08/16/99	<0.01	
8LTY73	Priebe Oil	Waterloo	Excavation	S-19	08/16/99	<0.01	
9LTI23	424 Kingbard	Waterloo	T2-99	B2	11/11/99	<0.015	
9LTI23	424 Kingbard	Waterloo	T2-99	B3	11/11/99	<0.015	
9LTI23	424 Kingbard	Waterloo	T2-99	B4	11/11/99	<0.015	
8LTB73	Hippen Tire	Wellsburg	Tier 2	MW18	09/27/99	<0.015	
8LTB73	Hippen Tire	Wellsburg	Tier 2	3BA	09/27/99	<0.015	
8LTIW29	Irwin Abels	Wellsburg	T2	BH2B	07/28/99	<0.38	
8LTIW29	Irwin Abels	Wellsburg	T2	MW3B	07/28/99	<0.38	
7LTL35	Nick's Amoco	Welton	Tier 2 1999	MW17	07/08/99	<0.015	None Original sample misplaced
7LTL35	Nick's Amoco	Welton	Tier 2 1999	MW18	09/08/99	<0.34	None
7LTL35	Nick's Amoco	Welton	Tier 2 1999	MW17	07/08/99	<0.015	None Original sample misplaced
7LTL35	Nick's Amoco	Welton	Tier 2 1999	MW18	09/08/99	<0.34	
7LTR87	Amoco #5654	West Branch	3rd Quarter	MW-8	07/07/1999	<5	
7LTR87	Amoco #5654	West Branch	3rd Quarter	MW-10	07/07/1999	<5	
7LTR87	Amoco #5654	West Branch	3rd Quarter	MW-11	07/07/1999	<5	
7LTR87	Amoco #5654	West Branch	3rd Quarter	MW-15	07/07/1999	<5	
7LTR87	Amoco #5654	West Branch	3rd Quarter	MW-16	07/07/1999	<50	
7LTR87	Amoco #5654	West Branch	3rd Quarter	MW-17	07/07/1999	23	
7LTR87	Amoco #5654	West Branch	3rd Quarter	MW-19	07/07/1999	<5	
7LTR87	Amoco #5654	West Branch	3rd Quarter	MW-20	07/07/1999	<5	

## Table 4. MTBE Results from Soil Samples Collected at LUST Sites

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
7LTR87	Amoco #5654	West Branch	Tier 2	Tap	08/16/1999	<10	
8LTT14	Amoco # 8564	West Des Moines	SMR-1999	MW-3	07/27/1999	<100	
8LTT14	Amoco # 8564	West Des Moines	SMR-1999	MW-5	07/01/1999	<10	
8LTT14	Amoco # 8564	West Des Moines	SMR-1999	MW-7	07/01/1999	<10	
8LTT14	Amoco # 8564	West Des Moines	SMR-1999	MW-10	07/01/1999	<10	
8LTT14	Amoco # 8564	West Des Moines	SMR-1999	MW-16	07/27/1999	<10	
8LTT14	Amoco # 8564	West Des Moines	SMR-1999	MW-21	07/01/1999	<10	
7LTB19	Lowells Conoco	West Des Moines	T2	MW6	08/11/99	<0.015	
7LTB19	Lowells Conoco	West Des Moines	T2	MW7	08/11/99	<0.36	
7LTB19	Lowells Conoco	West Des Moines	T2	MW8	08/13/99	<0.34	
7LTB19	Lowells Conoco	West Des Moines	T2	TBEb	09/23/99	<0.36	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-1	07/09/1999	20	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-2R	07/09/1999	25	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-3	07/09/1999	43	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-5	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-6	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-7	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-8	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-9	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-11	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-12	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-13	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-14	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-15	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-16	07/09/1999	14	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-17	07/09/1999	<10	
7LTE08	Amoco 5677	Williamsburg	SMR 1999	MW-18	07/09/1999	<10	
7LTL53	Kum & Go #443	Willmsbrg	MW install	MW-22	07/07/99	<0.015	none
7LTL53	Kum & Go #443	Willmsbrg	MW install	MW-23	07/07/99	<0.015	none
7LTD46	former McNear	Woodbine	Sept. 99	SB-B	09/02/99	< 0.015	
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	SB3	07/12/99	<.01	
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	SB4	07/12/99	<.01	
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	SB5/MW1	07/12/99	<.01	

**Table 4. MTBE Results from Soil Samples Collected at LUST Sites**

LUST #	Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE Soil (mg/kg)	Comments
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	MW2	07/12/99	<.01	
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	MW3	07/12/99	<.01	
9LTH35	WRIGHT COUNTY	WOOLSTOCK	TIER 2	DUP(SB4)	07/12/99	<.02	

## Table 5. MTBE Results in Receptor Samples at LUST Sites

Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE water sample (ug/L)	Comments
Kerr McGee	Ames	3rd Qtr SMR	Influent	09/29/99	23.3	Influent to trt. system
Kerr McGee	Ames	3rd Qtr SMR	Effluent	09/29/99	<2	Effluent from trt. system
Kerr McGee	Ames	3rd Qtr SMR	TACO TIME	09/29/99	<2	Sump sample
Former Pump-N-Party	Ames	Tier 2	PWL-Ames Auto Elec	08/31/99	<2	Plastic water line
Conoco - Cedar Falls	Cedar Falls	SMR 1999	City Well	08/18/99	<1.0	Municiple well
Former Northwood Knolls	Cedar Rapids	SMR	Mccloud Creek	09/22/99	<1.0	Surface water sample
The Corner Store	Center Point	SMR	WW-1	08/27/99	23.7	Drinking water well
The Corner Store	Center Point	SMR	WW-2	08/27/99	7.4	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#1-Kamm	07/09/99	<2	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#2-Schultz	07/09/99	<2	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#4-Parker	07/09/99	<2	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#5-McCoy	07/09/99	<2	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#6-Bennette	07/09/99	<2	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#7-Lloyd	07/09/99	<2	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#8-Barn	07/09/99	<2	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#9-Bank	07/09/99	<2	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#11-Ross	07/09/99	<2	Drinking water well
Frmr. Gas Stn.	Climbing Hill	2-QTR SMR	#12-Church	07/09/99	<2	Drinking water well
Coralville 76	Coralville	Tier 2 Report	Hardee's tap	09/29/99	<15	Plastic water line
Dilts Trucking	Crescent	Tier 2	NDWW	07/07/99	<1	Nondrinking water well
Faust Garge and Grocery	Delaware	Tier 2	WW-I	08/20/99	<1.0	Drinking water well
Faust Garge and Grocery	Delaware	Tier 2	WW-J	08/20/99	<1.0	Drinking water well
Faust Garge and Grocery	Delaware	Tier 2	WW-M	08/20/99	<1.0	Drinking water well
Faust Garge and Grocery	Delaware	Tier 2	WW-N	08/20/99	<1.0	Drinking water well
Faust Garge and Grocery	Delaware	Tier 2	WW-O	08/20/99	<1.0	Drinking water well
Faust Garge and Grocery	Delaware	Tier 2	WW-P	08/20/99	<1.0	Drinking water well
Faust Garge and Grocery	Delaware	Tier 2	WW-Q	08/20/99	<1.0	Drinking water well
Faust Garge and Grocery	Delaware	Tier 2	WW-Y	08/20/99	<1.0	Drinking water well
Faust Garge and Grocery	Delaware	Tier 2	WW-BB	08/20/99	<1.0	Drinking water well



**Table 5. MTBE Results in Receptor Samples at LUST Sites (continued)**

Site Name	Site City	Monitoring Event	Sample ID	Sample Date (mm/dd/yyyy)	MTBE water sample (ug/L)	Comments
Faust Garge and Grocery	Delaware	Tier 2	WW-AA	08/20/99	<1.0	Drinking water well
Former Car Care Corner	Eldora	SMR	97777 - City Well #3	09/17/99	<2	Municiple well
Graettinger Country Store	Greattinger	SMR	Tap	07/30/99	<15	Plastic water line
Bates Hilltop	Guthrie Center	Tier 2	WW-1	10/27/99	<1	Drinking water well
Bates Hilltop	Guthrie Center	Tier 2	WW-2	10/27/99	<1	Drinking water well
Central Counties	Laurel	Tier-2	MH-1	07/19/99	<10	Sewer Manhole
Central Counties	Laurel	Tier-2	Tap Water	07/19/99	<2	Faucet sample
South Central	Melcher	Tier 2	PWL	08/27/99	<1.0	Plastic water line
South Fork Marina	Mystic	Tier 2	PWL	10/13/99	<1.0	Plastic water line
CV/FS	New Hampton	SMR 199	DWW-1	08/17/99	<1.0	Drinking water well
Amoco Food Shop	Ottumwa	Tier 2	Tap 1	08/19/99	<10	Plastic water line
Coastal Mart	Seymour	SMR-1999	Coastal Tap	08/10/99	<10	Plastic water line
Coastal Mart	Seymour	SMR-1999	Feedmill Tap	08/10/99	<10	Plastic water line
former Mobil Station	Sharpsburg	1999 SMR	pwl	08/25/99	< 1.0	Plastic water line
IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	Influent	09/01/99	7.8	Influent to trt. system
IDOT-Hamilton Maintenanc	Sioux City	Third Quarter	Effluent	09/01/99	3.2	Effluent from trt. system
R-S SCHOOL	STORY CITY	SMR	DRAINAGE CREEK	08/13/99	<2	Surface water sample
Car Go Express	Sutherland	Tier 2	Pepper Well	07/26/99	<15	Drinking water well
The Car Stop	Walnut	Tier 2	Kum & Go Tap	10/14/99	<1	Plastic water line
Lowells Conoco	WDM	T2	Tap	08/18/99	<1	Plastic water line
Nick's Amoco	Welton	Tier 2 1999	Well Water	11/16/99	<15	Drinking water well
Nick's Amoco	Welton	Tier 2 1999	Shop	11/17/99	<15	Drinking water well
Nick's Amoco	Welton	Tier 2 1999	House	11/17/99	<15	Drinking water well
Former 76 Self Serv	Williamsburg	PWL sampling	PWL#1	10/15/99	<1.0	Plastic water line



**Table 6. Other Oxygenates Detected in Samples at LUST Sites**

Chemical	Soil	Groundwater
DIPE No. of detections reported	1	13
No. quantified	5 samples reported as <0.01 mg/kg	None quantified
ETBE No. of detections reported	1	33
No. quantified	5 samples reported as <0.01 mg/kg	None quantified
TAME No. of detections reported	1	22
No. quantified (reported concentrations)	5 samples reported as <0.01 mg/kg	4 samples quantified (2.2, 4, 109, 117 ug/L)
TBA No. of detections reported	1	22
No. quantified (reported concentrations)	5 samples reported as <0.25 mg/kg	4 samples quantified (<50, 522, <2500, 3480 ug/L)