CON 12-15
Doc #33153

PHASE I / PHASE II ENVIRONMENTAL ASSESSMENT
CLINTON ENGINES PROPERTY
605 EAST MAPLE STREET
MAQUOKETA, IOWA

Prepared For:

CITY OF MAQUOKETA
201 East Pleasant Street
Maquoketa, Iowa 52060

Prepared By:

MISSMAN, STANLEY & ASSOCIATES, P.C.
2415 18th Street, Suite 203
Bettendorf, Iowa
(319) 344-0260

October 15, 1999
C99E028

MISSMAN, STANLEY & ASSOCIATES, P.C.
Civil Engineering • Surveying • Environmental Services • GIS Services

2415 18th Street, Suite 206
(319) 344-0260

Bettendorf, Iowa 52722
FAX (319) 344-0263

October 15, 1999

Mr. Brian Wagner, City Manager
City of Maquoketa
201 East Pleasant Street
Maquoketa, Iowa 52060

RE: Phase I / Phase II Environmental Assessment
Clinton Engines Property
605 East Maple Street
Maquoketa, Iowa
MSA No. C99E028

Dear Mr. Wagner:

Missman, Stanley & Associates, P.C. (MSA) has completed a Phase I / Phase II environmental site assessment of the property located at 605 East Maple Street in Maquoketa, Iowa.

The Phase I environmental assessment was completed in general accordance with ASTM Designation E 1527-97 and our proposal dated June 24, 1999. Results of our assessment are discussed in the report attached herewith. The attached report also discusses intrusive environmental assessment activities that were performed at the site with the intent of addressing the concerns identified during phase I. If you have any questions regarding the information discussed in our report, please do not hesitate to contact our office. MSA appreciates this opportunity to work with the City of Maquoketa, and we look forward to continuing our working relationship in the future.

Sincerely,

MISSMAN, STANLEY & ASSOCIATES, P.C.

By _____
Paul A. Loete, P.E.
Project Manager

PRINCIPALS R.C. Ryken - President K.L. Koski - Executive Vice-President M.K. McCaw - Vice President R.E. Dunning - Vice-President
ASSOCIATES J.M. Roegiers C.C. Blevins D.R. Martin D.T. Schwertley B.D. Frickenstein J.W. Abbitt
S.L. Kammerman D.A. Brickner P.D. Eikenberry R.J. Larson, Jr. J.N. McKay G.A. Ryckaert

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 PURPOSE AND SCOPE 1

3.0 SITE OVERVIEW 1

3.1 SITE LOCATION 1
3.2 SITE GEOLOGY AND TOPOGRAPHY 2
3.2.1 USGS Topographic map 2
3.2.2 Rock Island County Soil Survey 2
3.3 ADJACENT PROPERTIES 2
3.4 SUBJECT PROPERTY 2

4.0 SITE HISTORY REVIEW 4

4.1 INTERVIEWS 4
4.1.1 Property Occupants 4
4.1.2 Former Factory Employee 5
4.1.3 Maquoketa Fire Department 5
4.2 AERIAL PHOTOGRAPH REVIEW 6
4.3 ASSESSOR'S RECORD 6
4.4 HISTORIC FACILITY MAP 7
4.5 HISTORICAL SUMMARY 7

5.0 ENVIRONMENTAL INFORMATION REVIEW 7

5.1 ENVIRONMENTAL DATABASE SUMMARY 9
5.2 UNMAPPABLE SITES 10
5.3 IDNR CORRESPONDENCE 10

6.0 FINDINGS OF PHASE I ASSESSMENT 11

7.0 INTRUSIVE ENVIRONMENTAL ASSESSMENT 12

7.1 DRILLING 12
7.2 SOIL SAMPLING 13
7.3 GROUNDWATER SAMPLE COLLECTION 13

8.0 ANALYTICAL RESULTS 14

8.1 SOIL SAMPLE ANALYSIS 14
8.2 GROUNDWATER SAMPLE ANALYSIS 15

9.0 SUMMARY AND CONCLUSION 15

10.0 RECOMMENDATIONS 16

11.0 GENERAL COMMENTS 17

APPENDIX A – Figures

Figure 1 Site Location Map
Figure 2 Site Diagram
Figure 3 Asbestos Sample Location Map
Figure 4 Asbestos Sample Locations - Office

APPENDIX B – Tables/Boring Logs
APPENDIX C – Environmental Database Report
APPENDIX D – Laboratory Report
APPENDIX E – Photos

PHASE I / PHASE II ENVIRONMENTAL ASSESSMENT
CLINTON ENGINES PROPERTY
605 EAST MAPLE STREET
MAQUOKETA, IOWA 52060

October 15, 1999

1.0 INTRODUCTION

Missman, Stanley & Associates, P.C. (MSA) has completed a Phase I and II environmental assessment on the property located at 650 East Maple Street in Maqouketa, Iowa. This assessment was conducted consistent with our proposal dated June 24, 1999, and letters dated September 24 and 25, 1999. A Site Location Map that depicts the location of the subject property is included as Figure 1, Appendix A. Figure 2, Appendix A, presents a Site Diagram that shows property features.

2.0 PURPOSE AND SCOPE

The objective of this assessment was to identify, to the extent feasible pursuant to the methods discussed herein, recognized environmental conditions in connection with the property, and to address those concerns with intrusive testing. The phase I portion of the assessment was completed in accordance with the protocol for performing Phase I Environmental Site Assessments as set forth in ASTM Designation E 1527-97. The phase II portion of the project was designed and conducted specifically with the intent to address the concerns identified during the phase I.

On September 10, 1999, a Missman, Stanley & Associates (MSA) representative performed a site reconnaissance of the subject property. During the site reconnaissance, MSA personnel traversed the perimeter and accessible areas of the property. MSA personnel also noted the adjacent properties and their uses in an attempt to identify potential off-site environmental impacts that might exist. Additionally, the scope of this assessment included the review of aerial photographs, Assessor's Record, and interviews with the property owners.

Intrusive environmental assessment activities were performed on September 23 and 24, 1999. The intrusive assessment included the advancement of eight boreholes and the collection of soil and groundwater samples for chemical analysis.

3.0 SITE OVERVIEW

3.1 Site Location

The subject property is located within the southwest quarter of Section 19, Township 84 North, Range 3 East in Jackson County, Iowa. Specifically the property is located at the southeast corner of the intersection of South Clark Street and East Maple Street in Maqouketa, Iowa. The subject property is addressed 605 East Maple Street. Figure 1, Appendix A, presents

an excerpt of a USGS 7.5-minute topographic map that depicts the location of the subject property.

3.2 Site Geology and Topography

3.2.1 USGS Topographic map

According to the USGS quadrangle map that contains the subject property and surrounding area, the property is situated at a land elevation of approximately seven hundred feet above sea level. Topography in the area of the property is generally flat, but slopes down toward the southwest toward a tributary of the Maquoketa River. The Maquoketa River is approximately five thousand feet northwest of the property, and flows toward the east.

3.2.2 Rock Island County Soil Survey

The Soil Survey of Jackson County dated 1988 was reviewed to obtain information regarding soil characteristics in the vicinity of the subject property. Soils in the area were defined by the soil survey as Urban Land. According to the soil survey, Urban Land occurs in nearly level areas on high stream benches and uplands in and around cities. In many areas the structures are built on cut or fill material and no land capability classification is assigned.

3.3 Adjacent Properties

MSA performed a site reconnaissance of the subject property on September 10, 1999. During the Site Reconnaissance, MSA traversed the accessible areas of the subject property and viewed adjacent properties for indications of potential environmental impacts that may exist. Reference Figure 2, Appendix A, for a Site Diagram that depicts adjacent properties and their usage. Photographs of the subject and adjacent property are included as Appendix E.

The subject property was bordered on the south by undeveloped agricultural land. Clark Street was immediately west of the site, beyond which was residential development. Maple Street was located immediately north of the Clinton Engines property. Commercial and residential development, including a bulk petroleum storage facility, were observed to the north of Maple Street. A railroad track was east of the subject site. Industrial/commercial development, including an apparent agricultural chemical storage facility were observed east of the railroad track.

3.4 Subject Property

The subject property occupied an area of approximately twelve acres, including an office building, active machine shop, and dilapidated foundry structures. The office building was situated on the western portion of the property, south of which was the active machine shop area. The vacant and dilapidated portion of the site was contiguous with and east of the machine shop. Reference Figure 2, Appendix A for a Site Diagram that shows site features.

The office building was rectangular in shape and occupied a footprint area of approximately 5200 square feet. The structure was two stories and constructed of brick. The

interior of the office building included a lobby area, offices, storage areas, a mechanical room, a meeting room and rest rooms. Based on the appearance of the interior of the office building, it appeared as though the building had not been updated since construction. Ceiling tile and other building materials were damaged in several of the rooms. The office building structure was surrounded by grass and trees on the west, north, and east. The active machine shop structure was south of the office building.

The machine shop area of the property encompassed approximately 71,000 square feet. This area had a concrete floor and included presses and other metal working equipment. Oil staining was noted on the concrete floor in some areas of the machine shop, and absorbent materials were also observed. The concrete floor appeared to be in good condition, and free of large cracks or joints that may allow oils or coolants to migrate directly into the soil below the floor. This area was also equipped with floor drains, that reportedly drain to the sanitary sewer system. A long and relatively narrow area was west of the machine shop. This area was used for a tool and die room on the southern portion of the facility and as parts storage on the northern portion of the facility. The parts storage area included cardboard boxes that had apparently been water damaged over the years.

Several compressors and other utilities were situated along the eastern portion of the machine shop area. It appeared as though several of the compressors were out of use. Again, oil-like staining was noted on the floor under and adjacent to the compressors and utilities. Several rooms were east of the machine shop and adjacent to the compressor area. These included an apparent chemical storage room, a boiler room, and a maintenance. During our site reconnaissance, the apparent chemical storage room was full of water, and therefore observation of this room was limited. The maintenance room stored several electric motors and had a rectangular pit in the floor. The pit appeared to contain an oil-like substance.

The area immediately east of the boiler/maintenance rooms will be referred herein as the central portion of the structure. The central portion of this structure included a shipping/receiving area, paint booths, and storage area. The shipping/receiving area and one of the paint booths were currently active, however the majority of this area was abandoned and contained parts and debris. Items stored in this area included engine parts, various drums, lawn mower parts, metal shavings, paint containers, hardware, and wire. An apparent water well and tank were observed near the southern portion of the central portion of the structure. A sump pit and miscellaneous storage and debris were southwest of the water well. An enclosed room, apparently formerly utilized as an office area was situated near the southeast corner of the central portion of the structure. The roof of the former office area was fallen in and dilapidated. Near the southeast corner of the enclosed area was a room which contained chemical containers such as fifty five gallon drums. A green substance was observed on the floor of this area. It appeared as though storm water was mixing with the chemicals and flowing through a hole in the wall of the structure. The storm water flowed onto a concrete pad south of the structure.

A shipping and staging area and a former foundry were east of the central portion of the structure. This section was vacant, however remnants of electrical equipment, wood, metal debris, various fifty five gallon drums, electrical motors, pumps, light ballast and pressure tanks were observed. East of the foundry, large blocks of concrete and brick were scattered about on a concrete pad. This appeared to be remnants of a former building. Two other, mostly vacant

buildings were east of the concrete and rubble. These buildings included brick, concrete rubble, various drums, metal debris and electrical motors.

Another rectangular structure of approximately 12,000 square feet in area was situated along the southern property line. This structure was mostly vacant, but appeared to have remnants of die casting, which included a furnace, large fans, electrical equipment, metal debris and pipes protruding from the floor. The area between the main structure and the southern most structure was partially covered with dirt, and partially paved. Miscellaneous remnants of the foundry were observed along the exterior of the structure, including chemical storage tanks, and process equipment. Additionally, two pipes, potentially associated with an underground storage tank (UST) were observed west of the southern most structure.

The area surrounding the facility was primarily vegetated with grass east and north of the structures on the property. A metal shed was north of the receiving area and east of the office building. The shed was mostly vacant, but contained miscellaneous remnants of the facility. Several pipes, potentially associated with a UST were noted in a overgrown area immediately east of the shed. A concrete pad was observed north of the easterly building and east of the metal shed. Utility poles were located along the southern edge of the subject property. Upon observation of the transformers appeared to be in good condition, there was no evidence of fluids leaking from the transformers. Reference Figure 2, Appendix A, for a Site Diagram that depicts site features at the time of the site reconnaissance. Photographs of the subject property are included as Appendix E.

4.0 SITE HISTORY REVIEW

Historical materials relative to the area of the subject property were gathered and reviewed with the intent of attempting to determine prior site usage that may have contributed to affecting the environmental quality of the site.

4.1 Interviews

4.1.1 Property Occupants

In an effort to obtain information about historic usage of the subject property and surrounding area, MSA interviewed Mr. Bill Mayberry, Vice President of Marketing for Clinton Engines and John Melroy, Secretary and Treasurer for Clinton Engines. During the interview, Mr. Mayberry and Mr. Melroy conveyed information on the present and historic usage of the property. Upon questioning, Mr. Mayberry and Mr. Melroy mentioned the following significant points:

- Clinton Engines acquired the property in approximately 1950 from The Maquoketa Company, the property was agricultural land prior to The Maquoketa Company ownership developing the property for industrial use.

- The west side of the building is presently and has historically been utilized as a machine shop, the central portion of the building was the die cast foundry, and the

eastern portion of the facility was utilized for casting and shake-out, where sand was removed from the casting molds.

- There are currently three paint booths in the existing manufacturing building and there was formerly a dip tank in the foundry.

- To the best of their knowledge, several underground storage tanks (USTs) located on the north side of the main building were removed from the site in approximately 1986. The tanks formerly stored gasoline and toluene.

- An UST storing fuel oil and utilized for the boiler back-up system is located east of a metal shed on the site. This tank was last used in approximately 1985.

- The boiler and all die cast equipment was fired by natural gas. The boiler was also setup to use fuel oil as an alternative fuel.

- A water well is located in the central portion of the facility, however Mr. Mayberry and Mr. Melroy were not aware of the well depth, and did not have documentation as to the date the well was installed.

- An area adjacent to the boiler room was utilized as a maintenance area for equipment and fork lifts. The pit in the floor was for workers to access equipment for maintenance.

- To the best of their knowledge, when oil spills occurred within the manufacturing area, oil dry was used and the materials were disposed of with the domestic garbage.

- According to Mr. Mayberry and Mr. Melroy, Safety Kleen transported and disposed of all hazardous waste generated on site.

- To the best of their knowledge, chemicals have not been disposed of on the property.

4.1.2 Former Factory Employee

MSA interviewed Mr. Jack Hinz, former employee of the Clinton Engines factory. Upon inquiry, Mr. Hinz mentioned that he worked at the site from 1951 to 1978. He also mentioned that the factory manufactured outboard boat motors, lawn mowers, and saws. Mr. Hinz stated that there were formerly several USTs located along the exterior of the northern wall of the machine shop building, and two other USTs located east of the metal shed on the property.

4.1.3 Maquoketa Fire Department

MSA contacted Mark Beck of the City of Maquoketa Fire Department to obtain information regarding historic fires, chemical spills or emergency response scenarios on the subject property. According to City of Maquoketa records, in there was a minor vehicle fire on the subject property, however no other records of potential adverse environmental scenarios were on file with the fire department.

4.2 Aerial Photograph Review

In an effort to obtain information relative to the history of development on the subject property and surrounding area, MSA personnel reviewed aerial photographs of the property available at the City of Maquoketa Library. Aerial photographs dated 1936, 1978 and 1990 were reviewed.

1936 Aerial Photograph

Review of the 1936 photograph revealed the area of the subject property to be undeveloped agricultural land. Agricultural land was also observed to the north and south of the subject property. Residential development was observed to the west and south of the subject property area. An apparent tree farm was observed to the east of the subject property area.

1978 Aerial Photograph

Review of the 1978 photograph revealed the area of the subject property to be generally consistent with the conditions observed during the site reconnaissance. The property included one large structure near the southern portion of the property, and several smaller structures around the subject property. The aerial depicted the presence of stored materials along the eastern and northeastern property boundaries. Additionally, several apparent semi-trailers and vehicles were parked along the northern property boundary north of the loading & shipping area. The photo also depicted the presence of a structure in the area of where the concrete rubble was identified on the eastern portion of the property. nA railroad track paralleled the eastern property boundary. To the east of the railroad was agricultural property and commercial development. Maple Street was present immediately north of the subject property. A large structure and parking lot were observed north of the Maple Street. Clark Street was present immediately west of the subject property. To the west of Clark Street was residential development. Agricultural land was observed to the south of the subject site.

1990 Aerial Photograph

Review of the 1990 aerial photograph revealed property conditions consistent with those observed in the 1978 aerial photograph. Industrial/commercial development was observed to the east of the subject site. The surrounding properties appeared to be consistent with those observed in the 1978 photograph.

4.3 Assessor's Record

MSA visited the City of Maquoketa Assessor in an effort to obtain information about the structures on the property. The assessor's data contained information as to the number and size of the structures on the property, but did not reveal information such as chemical storage areas of waste disposal areas on the property.

4.4 Historic Facility Map

MSA reviewed a blueprint of the facility dated 1965 to gain information regarding historic operations on the property. The map identified the activities that occurred in various areas of the facility. The drawing did not show chemical storage areas or tanks. Waste disposal areas were not identified on the map.

4.5 Historical Summary

Based upon our review of the information discussed in this report, it appears that the subject property has historically been utilized for industrial purposes since approximately 1945. Review of aerials revealed several industrial/commercial structures on site since at least 1978. An interview with the property occupants revealed that chemical storage and manufacturing activities historically existed on the subject property.

5.0 ENVIRONMENTAL INFORMATION REVIEW

MSA retained the services of Environmental FirstSearch to provide a comprehensive environmental database review. The database review was performed with the intent of attempting to identify adjacent properties that may potentially impact the subject property.

The following table provides a summary of the environmental database information reviewed, including the database type and number of sites within the search radius. The databases that were searched and the search radii from the subject property were selected consistent with the requirements for performing Phase I Environmental Site Assessments in ASTM Practice E-1527. A copy of the environmental database report is included as Appendix C.

Database Type	ASTM Radius (Miles)	Number of Occurrences
USEPA Databases		
NPL	1	0
CORRACTS	1	0
TSD	0.5	0
CERCLIS	0.5	1
RCRA GEN	0.25	1
State Databases		
UST	0.25	4
LEAKING UST	0.5	7
ERNS	0.25	0
SWLF	0.5	0
SPL	1	0

A summary of the environmental databases searched follows.

NPL

The National Priority List is the USEPA's database of uncontrolled or abandoned hazardous waste sites, which have been prioritized for remedial actions under the Superfund program. No sites were listed on the NPL database as being within one mile of the subject property.

CORRACTS

This database includes Resource Conservation and Recovery Act (RCRA) facilities that are undergoing "corrective action". A "corrective action order" is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. No sites were identified on the CORRACTS database as being within 1 mile of the subject property.

TSD

RCRA Treatment, Storage, and Disposal (TSD) facilities database is a compilation of facilities which report the treatment, storage, or disposal of hazardous waste. No sites were listed on the TSD database as being within one-half mile of the subject property.

CERCLIS

The CERCLIS database contains sites that are either proposed to be on the NPL or sites which are currently in the environmental assessment and evaluation phase. One CERCLIS site was identified within one-half mile of the property. The site was identified as Maquoketa FMGP located at 109 South Matteson Street.

RCRA GENERATORS

The RCRA small quantity generators database contains sites which report the generation of small quantities of hazardous waste. One site was listed on the RCRA generators database as being within one-quarter mile of the property. The site was identified as the subject property.

LUST

The Leaking Underground Storage Tank database contains a compilation of registered UST sites which have been identified to have leaked. Seven LUST sites were identified within one-half mile of the subject property. The LUST sites that were identified are as follows:

Site	Location
Former Roadside Auto Sales	510 E. Platt Street
Caseys	801 E. Platt Street
Dudes 66	409 E. Platt Street
Coastal Mart #2438	302 E. Platt Street
East Platt North Starr	303 E. Platt Street
U S West	121 N Olive
Maquoketa Web Printing	1209 E Maple Street

SWLF

Solid Waste Facilities/Landfill Sites (SWLF) records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps. No SWLF sites were identified within one-half mile of the subject property.

SPL

The State equivalent Priority List is a state database, which contains sites listed on the state NPL list. No State sites were identified within one mile of the subject property.

UST

The State Underground Storage Tank database contains sites that have registered USTs. Five sites were listed on the UST database as being within one-quarter mile of the property. The UST sites were identified as follows:

Site	Location
Clinton Engines	605 E. Maple Street
Former Roadside Auto Sales	510 E. Platt Street
Caseys	801 E. Platt Street
Dude S 66	409 E. Platt Street

ERNS

The Emergency Response Notification System database contains information on reported releases of oil and hazardous substances. No ERNS sites were identified in the database search as being within one-eighth of a mile of the subject property.

5.1 Environmental Database Summary

Environmental FirstSearch conducted a review of environmental databases maintained by the USEPA and IDNR. According to the database report, the subject property was identified on the RCRA Generators and UST databases. The RCRA Generators database only indicates that hazardous wastes are generated at the site, not necessarily that a release has occurred. The database report indicated that six USTs have been registered to the site. Further the database report indicated that four of the six tanks have been removed from the site, and two 20,000 gallon diesel tanks remain active at the site.

Based on land surface topography in the vicinity of the property, it is likely that groundwater flow direction in the area of the subject property is probably toward the south, southwest. Several environmental database sites were identified by the environmental database report as being within the ASTM defined radii from the subject property, and north (upgradient) of the subject property. Based on the magnitude of the releases at these sites, and the hydrogeology of the area of the property, there is a potential that constituents associated with these sites could migrate onto the subject property.

5.2 Unmappable Sites

A common shortcoming of environmental database information is that often several database sites cannot be accurately mapped due to limited address or location information. Many of the sites, which are listed as unmappable, can be eliminated based on the address information provided, however, not all site locations can be readily identified. The database search revealed forty-three unmapped sites. The unmapped sites, which could not be eliminated from consideration based on the site name and address information provided, are as follows:

DataBase Type	Site Name/ID/Status	Address
UST	8606163	Rt. 4 Box 10
UST	Anamosa Silos Inc.	RR 2
UST	Arthur Bloore Farm	RTE 1 Country Rd
UST	Century Concrete Co.	RR 3
UST	County Shed # 5	RR 2
UST	Floyd Cornelius	Rte 1
UST	Gary Petersen	Rte 4 Box 102
UST	Harold Schepers	RTE. 1
SWL	Iowa Medical Waste Reduction Center	Maquoketa, Iowa
UST	Jackson Co. Springbrook Shop	RR 3
UST	Jackson Co. Sanitary Disposal AG	RR 3
UST	Keith Kenniker	Rte. 4
UST	Kirchhoff Dist	106,108&110 Matteson St.
UST	La Verne M Roberg	Rte 1 Box 102
UST	Larry Johnson	Rte 4
UST	LaVerns Store	R 2
LUST	Lazy J Motel	RR#1 Box 112
UST	Lazy J Motel	RR #1 Box 112
UST	Maquoketa Caves ST	RR 2 Box 212
STATE	Maquoketa Coal Gas	Maquoketa, Iowa
RCRAGN	S&H Fbricating & Eng.of Iowa	1201 E. Summit
UST	U S West	Highway Y-31

5.3 IDNR Correspondence

MSA reviewed correspondence from the IDNR in regard to the USTs that were removed from the site. The IDNR correspondence, dated February 21, 1990, indicates that five USTs containing petroleum products were removed from the subject property. The IDNR letter also indicates that based on the analytical report submitted to their office, no further action is required for the tanks. The IDNR letter was supplemented with correspondence from Clinton Engines reporting the UST removal. The Clinton Engines letter was dated December 30, 1989 and stated that the tanks that were removed included two 1000 gallon gasoline tanks, one 2,000 gallon gasoline tank, one 600 gallon gasoline tank, and one 1,000 gallon paint thinner tank. The letter

stated that five soil samples were collected from the UST excavation and analyzed for benzene, ethylbenzene, toluene, total xylenes, and total hydrocarbons. Each of the samples were less than the laboratory reporting limit for each of the parameters with the exception of a hit of 21 milligrams per kilogram total hydrocarbons in one sample.

6.0 FINDINGS OF PHASE I ASSESSMENT

Missman, Stanley & Associates, P.C. has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527 of the Clinton Engines property located at 605 East Maple Street in Maquoketa, Iowa. The assessment has revealed the following evidence of recognized environmental conditions in connection with the subject property:

- The presence of two underground storage tanks (USTs) that are reportedly on the site. Both of the USTs historically stored fuel oil for backup fueling of furnaces and other equipment formerly on the site. Due to the age of these tanks, a potential exists for constituents associated with them to have been released into soil and groundwater on the site.

- The presence of the historic foundry on the site. Foundries typically generate waste sand and slag that was potentially disposed on the site, as evidenced by review of historic aerial photographs of the property.

- The presence of an open pit in the maintenance room of the facility that appeared to contain an oil-like substance. Due to the liquid in the pit, the integrity of the pit could not be observed. There is a potential that if the pit is cracked or has separated joints, these materials could be impacting soil and groundwater below the ground surface.

- The presence of 5 USTs that formerly were situated north of the machine shop of the facility. Although soil samples were collected at the time of the UST removal, documentation was not provided as to the location of the soil samples, and groundwater was not collected.

- Two above ground tanks that appeared to be of the type used to store fuel oil or used oil were observed on the south side of the foundry building. Although evidence was not present that the existing tanks contained oil, there is a potential that a release occurred on the area of the tanks.

- Several areas inside the structure contained residual solid material and staining associated with the historic operations on the facility. Due to the concrete floors in the facility, it is unlikely that soil or groundwater may have been impacted by the noted staining and residual material, however, it is recommended that an inventory of existing materials be performed prior to demolition of the structures. Further, a potential exists for some areas of soil impact to exist below the concrete floor,

particularly in the machine shop area. These areas could not be identified, but should be addressed at the time of structure demolition.

- The presence of a former concrete pad on the property that was used to stored used oil drums. A potential exists for constituents associated with the used oil to have been released or spilled in the area of the pad.

- The presence of chemical storage, and apparent running off of chemical compounds from the room near the southeast corner of the central portion of the facility. The chemicals or compounds that were stored in the area could not be identified, and the material drained onto a concrete pad, however, due to the age of the facility, it is likely that the area adjacent to or under the concrete pad will be impacted with constituents associated with the chemicals stored in that area.

7.0 INTRUSIVE ENVIRONMENTAL ASSESSMENT

In an effort to address the concerns identified above, MSA recommends that an intrusive environmental assessment be performed on the property. The intent of the intrusive assessment is to collect soil and/or groundwater samples to determine if any of the concerns identified above have impacted the environmental quality of the site.

The scope of work for the intrusive assessment included the drilling of eight soil borings and the collection of soil and groundwater samples for chemical analysis. The boreholes were strategically placed in locations that present a high probability of soil and/or groundwater contamination. Four of the borings were advanced to a total depth of ten feet below ground surface (bgs). The other four borings were advanced to a depth sufficient to collect a groundwater sample. During borehole advancement, soil samples were collected from 2 feet bgs, and at 5 foot intervals thereafter. Each collected soil sample was field screened with a photoionization detector (PID) to determine if organic vapors were present in the sample.

7.1 Drilling

Drilling was accomplished with a truck mounted drill rig that utilized a 3¼-inch inside diameter continuous flight augers. Prior to site activities and between each borehole, the downhole drilling equipment and split spoon sampling device were decontaminated with a steam cleaner and Alconox® detergent. A lithologic log of each boring was completed based on observations during drilling and sampling.

With the exception of two areas of the property, three to five feet of fill was encountered in the borings on the site. The fill material primarily consisted of foundry sand and slag. Silty clay was encountered in the boreholes below the fill material. Groundwater was observed at approximately twelve feet below land surface. Completed boring logs for each soil boring are included in Appendix B.

7.2 Soil Sampling

Soil samples were collected with a two foot long split spoon-sampling device. Following sample recovery, each sample was placed into a ziplock® bag and allowed to stand for approximately fifteen minutes. After the fifteen-minute holding period, the samples were field screened with a photoionization detector (PID). The PID was calibrated to 55 ppm with isobutylene prior to field screening. Soil samples selected for analysis were based upon PID results, odor and visual observations at the time of sample collection, in addition to the suspected source of the suspected contamination. The results of field screening are included on the boring logs, attached in Appendix B.

Following field screening, one soil sample from each boring was sent to Test America Laboratory in Cedar Falls, Iowa for analysis. The selected samples were placed into laboratory prepared containers and stored in an ice-packed cooler pending shipment to the laboratory. Again, the analytical suite selected for each boring location was a function of field indicators and the source of the suspected contamination. The table below presents a summary of the analytical parameters that were selected for each boring location.

Boring	Soil Analysis	Water Analysis
1	OA-1/OA-2	OA-1/OA-2
2	Priority Pollutant Metals/cyanide/PCBs	Priority Pollutant Metals/cyanide/PCBs
3	PP metals/cyanide	VOCs
4	OA-1/OA-2	
6	VOCs	VOCs
7	PP metals/cyanide	
8	PP metals/cyanide	
9	OA-1/OA-2	OA-1/OA-2

It is noted that boring B-5 was going to be a hand auger boring in the maintenance pit inside the facility. Further inspection of the area, however, revealed that the pit contained some standing oil. For this reason, a sample was not collected, and boring B-5 was not performed.

7.3 Groundwater Sample Collection

Groundwater samples were collected from selected borings via the use of single use, disposable bailers. Temporary well screens were installed in the boreholes to facilitate sample collection and to prevent the borehole from collapsing. The collected water samples were immediately transferred to laboratory prepared containers and stored on ice pending analysis. Following on-site activities, the samples were relinquished to Test America Laboratories in Cedar Falls, Iowa under standard chain of custody documentation. The analytical parameters for which groundwater samples were analyzed for are identified on the table above. It is noted that the VOC analysis in the groundwater sample collected from boring B-3 was added due to sample observations during collection.

7.4 Asbestos Containing Building Material Sampling

In an effort to determine if asbestos containing building materials need to be addressed in future potential demolition activities, an asbestos inspection was performed on the subject property. Suspect Asbestos Containing Building Material (ACBM) samples were collected by a licensed Asbestos Inspector on September 16, 1999. Suspect ACBM samples were collected from the walls, ceiling tile, thermal insulation, floor tile and mastic, floor board and roofing material located from the office building and areas of the manufacturing building. The samples were sent to Spectrum Laboratory in Moline, Illinois for analysis by Polarized Light Microscopy (PLM) method. Sample locations are included on Figures 3 and 4, Appendix A. A table presenting the samples collected and the asbestos content of each sample is included as Table 1, Appendix B.

If the areas determined to contain ACBM are to be demolished the ACBM must be removed by a licensed abatement contractor or all demolition debris must be disposed of according to all applicable regulations.

8.0 ANALYTICAL RESULTS

For comparative purposes, the analytical data obtained during the intrusive portion of this project have been compared to statewide standards prepared by the Iowa Department of Natural Resources (IDNR) for the purposes of their Land Recycling Program (LRP), governed by Section 137 of Iowa Administrative Code. The LRP is a voluntary program that the IDNR has established with the intent of addressing voluntary cleanup throughout the state. It is noted that the USTs that exist on the property may be subject to other regulatory requirements.

8.1 Soil Sample Analysis

A summary of the analytical results of the collected soil sample is included on Table Series 2, Appendix B. For comparative purposes, the Statewide Standard for each analytical parameter is also included on the table. It is noted that the statewide standards presented on the table are for the soil ingestion exposure pathway only. Based on site conditions, and potential exposure routes, the IDNR may apply a more strict standard for an analytical parameter. A copy of the Text America laboratory report is included for reference purposes in Appendix D.

Each of the priority pollutant metals were detected at concentrations either less than the laboratory reporting limit, or less than the statewide standard, with the exception of beryllium and arsenic. Beryllium was detected in soil samples collected from borings B-2, B-3, B-7, and B-8 at concentrations that exceed that statewide standard concentration. The soil samples in which the beryllium was detected were collected at various depths up to twelve feet below land surface. Each of the borings in which elevated concentrations of beryllium were detected were advanced through foundry sand and slag fill material. The fill material on the site is a likely source of the beryllium concentrations. Additionally, arsenic was detected in the soil sample collected from boring B-7 at a concentration exceeding the statewide standard. The sample collected from boring B-7 was collected from 5-7 feet below ground surface.

Organic constituents were detected in the samples collected from borings B-4 and B-6, however, the detected concentrations were less than the statewide standards. Polychlorinated biphenyls (PCBs) were not detected at concentrations exceeding the laboratory detected limit in the soil sample collected from boring B-2.

8.2 Groundwater Sample Analysis

A summary of the analytical results of collected groundwater samples is included on Table Series 3, Appendix B. For comparative purposes, the Statewide Standard, for each analytical parameter is also included on the table. A copy of the Test America laboratory report is included in Appendix D.

Priority pollutant metals and PCBs were not detected in the groundwater sample collected from boring B-2 at concentrations either exceeding the laboratory detection limit or the statewide standard. Additionally, petroleum related compounds were not detected above the statewide standards in the groundwater samples collected from borings B-1 and B-9.

Organic constituents were detected at concentrations exceeding the statewide standard in the groundwater samples collected from borings B-3 and B-6. Specifically, petroleum constituents benzene and naphthalene, and solvent related constituents dichloroethylene, trichloroethylene, and vinyl chloride were detected at elevated concentrations in boring B-3. Review of the boring log for this boring suggests that the contaminants may have originated from the surface, as PID readings were elevated in shallow samples.

Toluene was detected at concentrations exceeding the statewide standard in boring B-6. In fact, the toluene concentration detected (673 milligrams per liter) in boring B-6 is at or near the solubility of toluene in water. It is likely that the toluene is associated with a former toluene tank that reportedly existed in the area of boring B-6.

9.0 SUMMARY AND CONCLUSION

Missman, Stanley & Associates, P.C. has completed our environmental assessment of the Clinton Engines Property in Maquoketa, Iowa. Our assessment has revealed recognized environmental conditions at the site associated with the following:

- The presence of beryllium at concentrations that exceeded that statewide standard for soil in soil samples collected from the property. It is noted that the beryllium standard is for the ingestion pathway.

- The presence of at least two USTs on the property. Our intrusive assessment did not reveal contaminants near the USTs at concentrations exceeding the statewide standards, however, that does not preclude that possibility of a release scenario having occurred for these tanks. It is likely that these tanks will be subject the closure requirements of Iowa Administrative Code Section 135.

- Organic constituents were detected at elevated concentrations in groundwater samples collected from borings B-3 and B-6. It is likely that these areas will require remediation prior to redevelopment of the property.

- Asbestos containing materials exist in structures on the property. These materials should be appropriately address prior to any demolition or renovation activities on the property.

- Several areas inside structures on the property contained residual chemical containers, staining, discoloration and waste material. These areas should be addressed prior to demolition of the structure.

- Due to the history of the property, a potential exists for constituents associated with the historic operations at the facility to have migrated through cracks or joints in the floor into soils below the structures. If these any of these areas are encountered during demolition, the impacted soils should be handled appropriately.

10.0 RECOMMENDATIONS

In evaluating the subject property and addressing the contaminants at the site from an environmental standpoint, the City of Maquoketa has the following alternatives:

1. To enter the site into the Iowa Land Recycling Program (LRP). Under this voluntary program, the IDNR will provide guidance for determining remediation objectives, performing remedial actions, and will ultimately issue a No Further Action Certificate (NFAC) for the property, if warranted. The NFAC must be written to the deed of the property, and is designed to release the applicant of liability associated with future remediation costs from the state, if encountered. Under this program, the applicant and owner of the property must formally enter the program, and must pay fees to the IDNR for their time. Reimbursement for assessment and remedial costs are not available under the ILRP. The LRP requires a nonrefundable enrollment fee of $750.00. Subsequent fees not to exceed $7,500.00, will be required for the IDNR oversight costs. Additionally, involvement in the program will require additional environmental assessment/monitoring of the site. We recommend budgeting two years for the completion of this program.

2. To evaluate the property in accordance with the requirements of Chapter 133 of the IAC. This program is also voluntary, however, the applicant is not required to reimburse the IDNR for their expenses. Under this program, the enrollee will not receive a NFAC from the IDNR, but will receive a letter stating the site has been appropriately address in accordance with the IDNR recommendations, if warranted. Upon initial correspondence to the department that a review under Chapter 133 is requested, the IDNR will respond with either a letter stating that the site has been given a low priority, or that a review will be conducted.

3. To proceed with environmental cleanup and evaluation on a voluntary basis without IDNR involvement. Under this scenario, MSA would prepare appropriate design reports, assessment reports and corrective action reports documenting site cleanup, however, correspondence from the IDNR would not be provided.

In consideration of these alternatives, their appropriateness is a function of the level of risk that the City of Maquoketa is willing to accept in proceeding with transfer of the property. In either case it is anticipated that the IDNR will require that the additional environmental assessment activities be performed at the site to fully characterize the extent of contaminants of concern on the property.

11.0 GENERAL COMMENTS

Achieving the study objectives stated in this report has required us to arrive at conclusions based upon the best information presently known to us. No investigation method can completely eliminate the possibility of obtaining partially imprecise or incomplete information; it can only reduce this possibility to an acceptable level. Professional judgment was exercised in gathering and analyzing the information obtained. Professional judgment was also exercised in the formulation of recommendations. Like all professional persons rendering advice, we do not act as absolute insurers of the conclusions we reach, but we commit ourselves to care and competence in reaching those conclusions.

Our undertaking at Missman, Stanley & Associates, therefore, is to perform our work within the limits prescribed by our clients, with the usual thoroughness and competence of the engineering profession. No other warranty or representation, either expressed or implied, is included or intended in this report.

Respectfully submitted,

MISSMAN, STANLEY & ASSOCIATES, P.C.

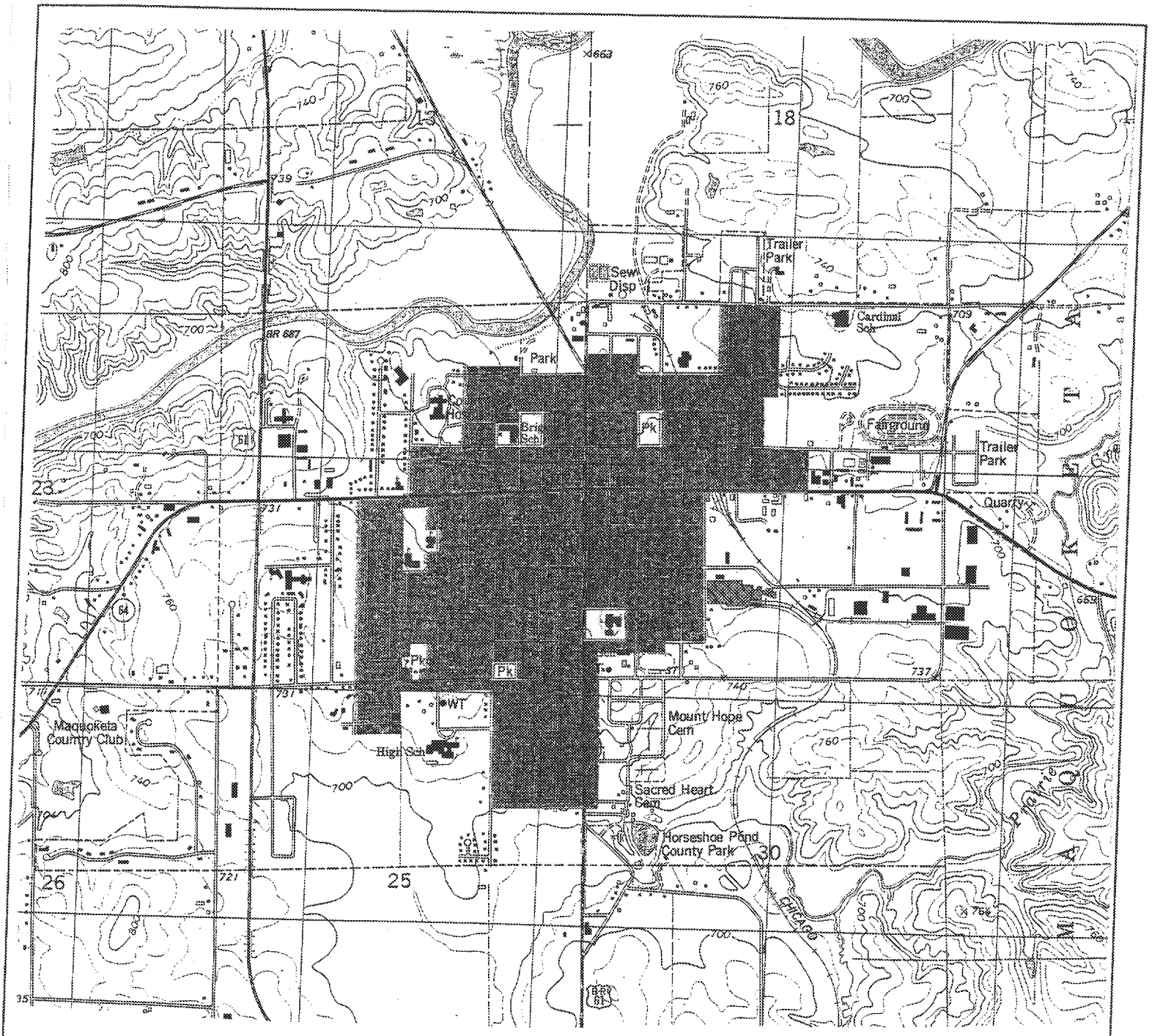
By _____
Paul A. Loete, P.E.
Project Manager

\\SRV3MSA\DATA\Environmental\Projects\1999\C99E028R01.doc

APPENDIX A

Figures

ED_006017_00000185-00021



SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

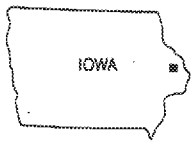
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MN
GN
1°33′ 28 MILS
3° 53 MILS

UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

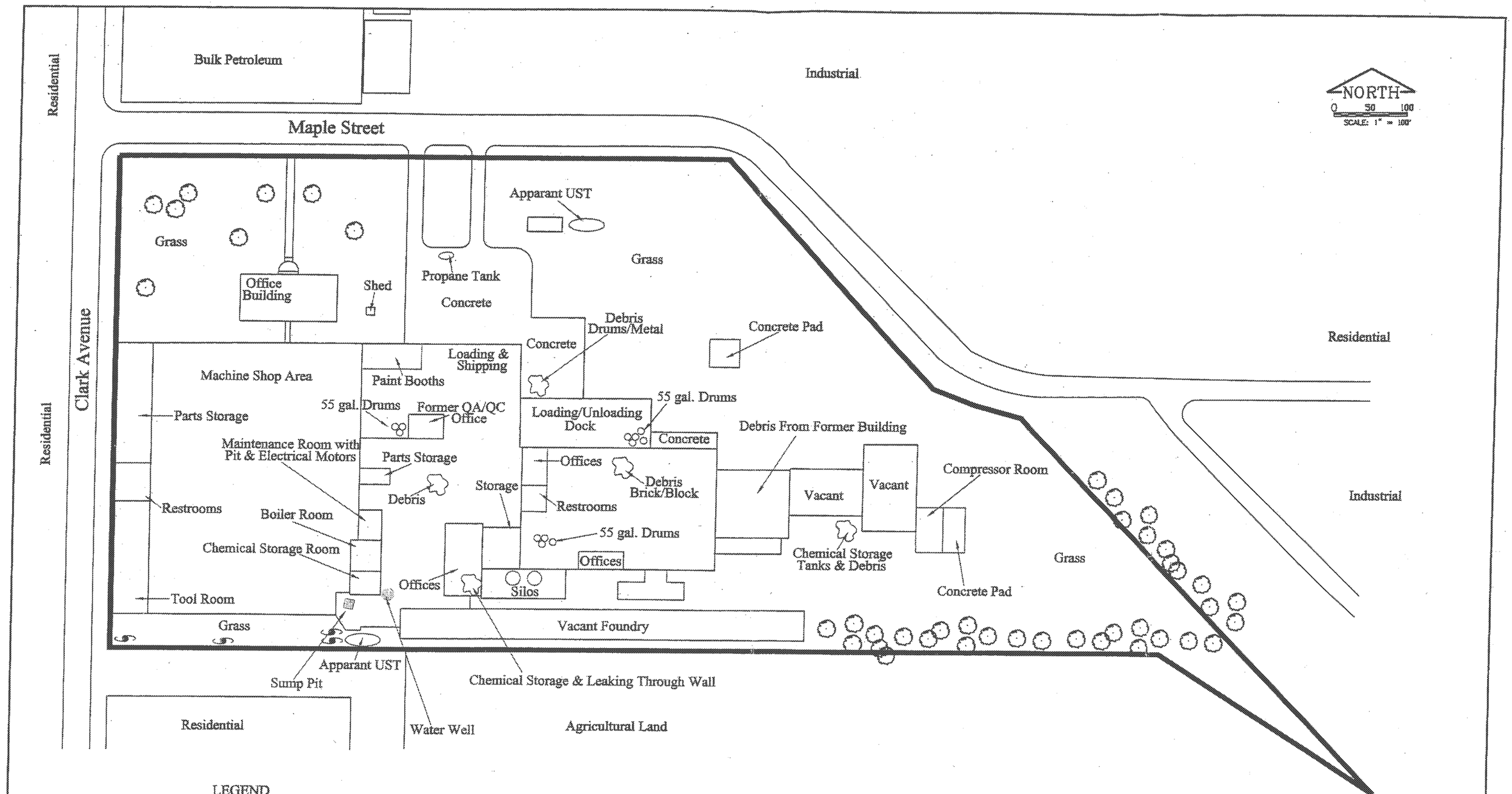
MAQUOKETA, IOWA
N4200–W9037.5/7.5

1980



QUADRANGLE LOCATION

Site Location Map	Figure 1
Clinton Engines 605 Maple Street Maquoketa, Iowa	Prepared by MSA Missman, Stanley & Associates Civil Engineering Surveying Environmental Consulting Computer Services (319) 344-6280 FAX (319) 344-6283
Drawn By: KLC	MSA No. C99E028
Figure 1. dwg	September 1999



LEGEND

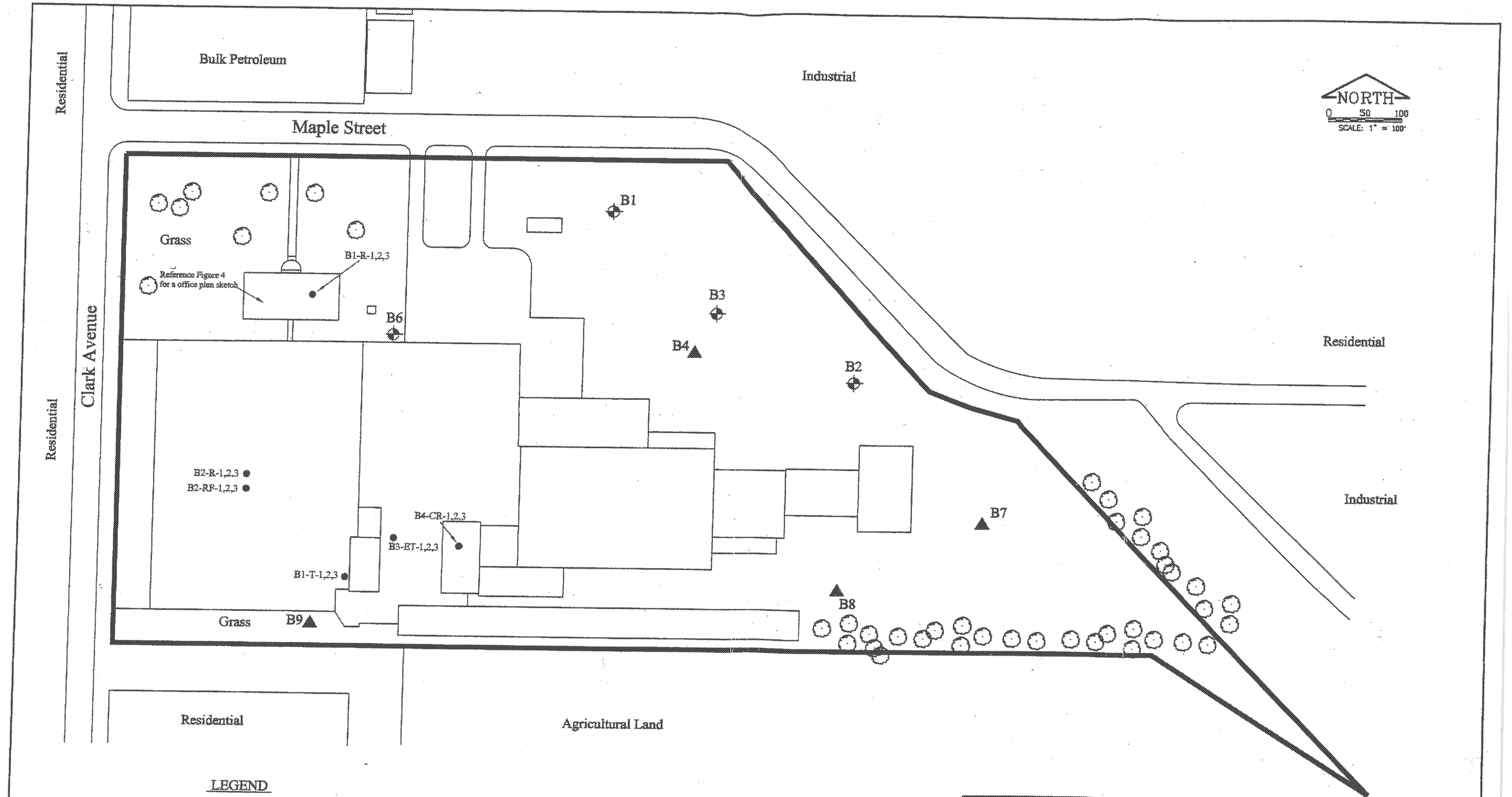
- Approximate Area of Subject Property
- Trees
- Utility Pole

Figure 2	Site Diagram

Prepared By:
MSA MISSMAN, STANLEY & ASSOCIATES
Civil Engineering Surveying Environmental Services
LANDSCAPE ARCHITECTURE
(319) 344-0260 FAX (319) 344-0263

Clinton Engines
605 Maple Street
Maquoketa, Iowa

Drawn By: KLC	MSA No. C99E028
C99E028.dwg	September 1999



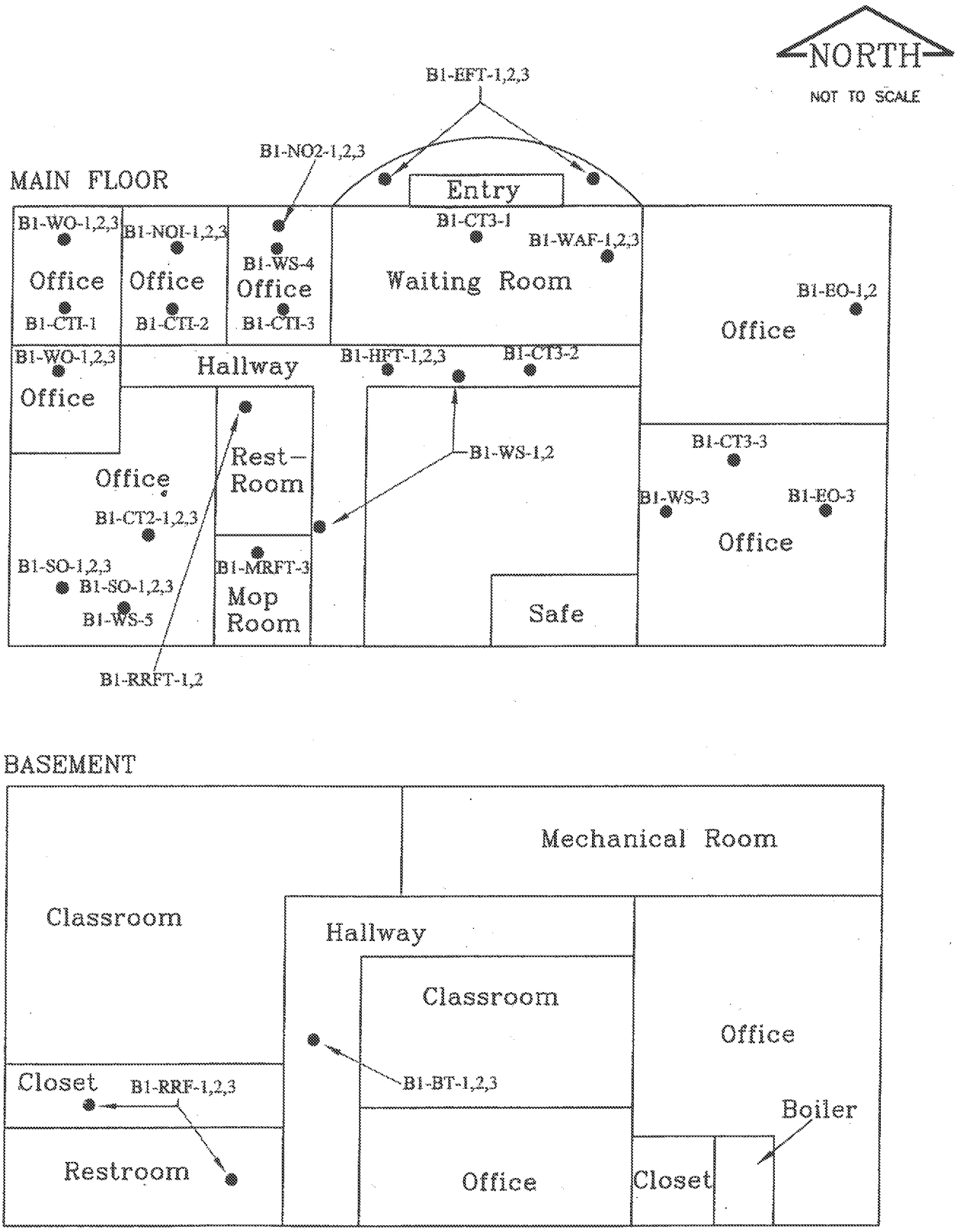
LEGEND

- Approximate Area of Subject Property
- Trees
- Approximate ACM Sample Location
- Location of Soil & Groundwater Sample
- Location of Soil Sample

Figure 3	Sampling Locations

Prepared By:
MSA MISSMAN, STANLEY & ASSOCIATES
Civil Engineering Surveying Environmental Services
LANDSCAPE ARCHITECTURE
(319) 344-0260 FAX (319) 344-0263

Clinton Engines	
605 Maple Street Maquoketa, Iowa	
Drawn By: KLC	MSA No. C99E028
C99E028.dwg	September 1999



LEGEND

● Approximate Location of Asbestos Containing Material sample

Office Building ACM Sampling Locations	Figure 4
Clinton Engines	Prepared by MSA Missman, Stanley & Associates Civil Engineering Surveying Environmental Consulting Computer Services (319) 344-0280 FAX (319) 344-0285
605 Maple Street Maquoketa, Iowa	
Drawn By: KLC / MSA No. C99E028	
C99E028asb.dwg / September 1999	

Tables
Boring Logs

APPENDIX B

ED_006017_00000185-00026

ED_006017_00000185-00027

Table Series 2.1
Analytical Results of Soil Samples
Clinton Engines Property
Maquoketa, Iowa
MSA No. C99E028

	Units	B-1-2	B-2-3	B-3-1	B-4-3	B-6-3	B-7-2	B-8-1	B-9-4	Statewide Standard
Priority Pollutant Metals										
Cyanide	mg/kg		<0.5	0.63			<0.5	<0.5		1600
Antimony	mg/kg		<5.0	<5.0			<5.0	<5.0		31
Arsenic	mg/kg		<4.0	<4.0			6	<4.0		1.4
Beryllium	mg/kg		0.735	0.623			0.782	0.664		0.48
Cadmium	mg/kg		1.1	3.4			1.4	<1.0		39
Chromium	mg/kg		9.8	160			7.2	6.2		120000
Copper	mg/kg		21	490			13	10		2900
Lead	mg/kg		11	230			11	14		400
Nickel	mg/kg		16	30			22	12		1600
Selenium	mg/kg		<7.5	<7.5			<7.5	<7.5		390
Silver	mg/kg		<1.0	<1.0			<1.0	<1.0		390
Thallium	mg/kg		<50	<50			<50	<50		5.5
Zinc	mg/kg		55	810			39	220		23000
Mercury	mg/kg		0.035	0.031			0.032	0.024		23
DR-2 Analysis										
Total Extractable Hydrocarbons	mg/kg	<10			240				<10	3800
Diesel	mg/kg	<10			<50				<10	3800
Gasoline	mg/kg	<10			<50				<10	
Motor Oil	mg/kg	<10			240				<10	
Volatile Organic Compounds										
Benzene	ug/kg	<250			680	<120			<250	73000
Bromobenzene	ug/kg					<120				
Bromochloromethane	ug/kg					<120				
Bromodichloromethane	ug/kg					<120				34000
Bromoform	ug/kg					<240				270000
Bromomethane	ug/kg					<480				110
n-Butylbenzene	ug/kg					<120				
sec-Butylbenzene	ug/kg					<120				
tert-Butylbenzene	ug/kg					<120				
Carbon Tetrachloride	ug/kg					<120				16000
Chlorobenzene	ug/kg					<120				1600000
Chlorodibromomethane	ug/kg					<120				
Chloroethane	ug/kg					<480				
Chloroform	ug/kg					<120				350000
Chloromethane	ug/kg					<480				
2-Chlorotoluene	ug/kg					<120				1600000
4-Chlorotoluene	ug/kg					<120				1600000
1,2-Dibromo-3-Chloropropane	ug/kg					<1200				1500
1,2-Dibromomethane	ug/kg					<1200				25
Dibromomethane	ug/kg					<120				780000
1,2-Dichlorobenzene	ug/kg					<120				7000000
1,3-Dichlorobenzene	ug/kg					<120				
1,4-Dichlorobenzene	ug/kg					<120				7800000
Dichlorodifluoromethane	ug/kg					<360				16000000
1,1-Dichloroethane	ug/kg					<120				7800000
1,2-Dichloroethane	ug/kg					<120				23000
1,1-Dichloroethene	ug/kg					<120				700000
cis-1,2-Dichloroethylene	ug/kg					<120				780000
trans-1,2-Dichloroethylene	ug/kg					<120				1600000
1,2-Dichloropropane	ug/kg					<120				31000
1,3-Dichloropropane	ug/kg					<120				
2,2- Dichloropropane	ug/kg					<120				
1,1-Dichloropropane	ug/kg					<120				
1,3-Dichloropropene(cis + trans)	ug/kg					<120				12000
Ethylbenzene	ug/kg	<500			<1000	786			<500	7800000
Hexachlorobutadiene	ug/kg					<600				16000
Isopropylbenzene	ug/kg					<120				
p-Isopropyltoluene	ug/kg					<120				
Methylene Chloride	ug/kg					<1200				260000
MTBE	ug/kg					<120				2300000
Naphthalene	ug/kg					<600				1600000
n-Propylbenzene	ug/kg					<120				
Styrene	ug/kg					<120				16000000
1,1,1,2-Tetrachloroethane	ug/kg					<120				2300000
1,1,2,2-Tetrachloroethane	ug/kg					<120				
Tetrachloroethene	ug/kg					<120				780000
Toluene	ug/kg	<500			1000	804000			<500	16000000
1,2,3-Trichlorobenzene	ug/kg					<600				
1,2,4-Trichlorobenzene	ug/kg					<600				780000
1,1,1-Trichloroethane	ug/kg					<120				2700000
1,1,2-Trichloroethane	ug/kg					<120				310000
Trichloroethylene	ug/kg					<120				160000
Trichlorofluoromethane	ug/kg					<480				23000000
1,2,3-Trichloropropane	ug/kg					<120				300
1,2,4-Trimethylbenzene	ug/kg					268				
1,3,5-Trimethylbenzene	ug/kg					<120				
Vinyl Chloride	ug/kg					<360				1100
Xylenes, Total	ug/kg	<500			2500	2690			<500	160000000

Table Series 2.2
Analytical Results of Soil Samples
Clinton Engines Property
Maquoketa, Iowa
MSA No. C99E028

1)

	units	B-1-2	B-2-3	B-3-1	B-4-2	B-6-2	B-7-2	B-8-1	B-9-4	Statewide Standard
PCBs										
PCB 1016/1242	mg/kg		<0.5							2100
PCB 1221	mg/kg		<0.5							2100
PCB 1232	mg/kg		<0.5							2100
PCB 1248	mg/kg		<0.5							2100
PCB 1254	mg/kg		<0.5							2100
PCB 1260	mg/kg		<0.5							2100
PCB 1268	mg/kg		<0.5							2100

pat/wr

Notes:

< = indicates less than the laboratory detection limit.
2) mg/kg = milligrams per kilogram.
3) ug/kg = micrograms per kilogram.
4) Statewide Standard is the threshold standard for the soil ingestion pathway, as taken from the IAC Section 137 (Land Recycling Program).
5) Reference Figure 2, Appendix A for the soil sample locations.
6) Statewide standards for pathways other than soil ingestion are site specific, and are determined on a site specific basis.

ED_006017_00000185-00029

Table Series 3.1
Analytical Results of Groundwater Samples
Clinton Engines Property
Maquoketa, Iowa
MSA No. C99E028

PARAMETERS	units	B-1	B-2	B-3	B-6	B-9	Statewide Standard
Priority Pollutant Metals							
Cyanide	mg/L		<0.005				0.2
Antimony	mg/L		<1.0				0.006
Arsenic	mg/L		<0.080				0.05
Beryllium	mg/L		<0.01				0.004
Cadmium	mg/L		<0.020				0.005
Chromium	mg/L		<0.020				N/S
Copper	mg/L		<0.020				1.3
Lead	mg/L		<0.10				0.015
Nickel	mg/L		<0.05				0.1
Selenium	mg/L		<0.15				0.05
Silver	mg/L		<0.020				0.1
Thallium	mg/L		<1.0				0.002
Zinc	mg/L		0.058				2
Mercury, Cold Vapor	mg/L		<0.00020				0.002
GA-2 Analysis							
Total Extractable Hydrocarbons	ug/L	<380				<380	
Diesel	ug/L	<380				<380	1200
Gasoline	ug/L	<380				<380	
Motor Oil	ug/L	<380				<380	400
VOCs							
Acetone	ug/L			<200	<10,000		700
Benzene	ug/L	<2.0		56	<200	<4.0	5
Bromobenzene	ug/L			<10	<500		N/S
Bromochloromethane	ug/L			<10	<500		10
Bromodichloromethane	ug/L			<10	<500		100
Bromoform	ug/L			<20	<1,000		100
Bromomethane	ug/L			<40	<2000		10
2-Butanone (mek)	ug/L			<100	<5000		4200
n-Butylbenzene	ug/L			<10	<500		N/S
sec-Butylbenzene	ug/L			<10	<500		N/S
tert-Butylbenzene	ug/L			10.2	<500		N/S
Carbon Tetrachloride	ug/L			<10	<500		5
Chlorobenzene	ug/L			<10	<500		100
Chlorodibromomethane	ug/L			<10	<500		100
Chloroethane	ug/L			<40	<2000		N/S
Chloroform	ug/L			<10	<500		100
Chloromethane	ug/L			<10	<500		3
2-Chlorotoluene	ug/L			<10	<500		100
4-Chlorotoluene	ug/L			<10	<500		100
1,2-Dibromo-3-Chloropropane	ug/L			<100	<5000		0.2
1,2-Dibromomethane	ug/L			<100	<5000		70
Dibromomethane	ug/L			<10	<500		70
1,2-Dichlorobenzene	ug/L			<10	<500		600
1,3-Dichlorobenzene	ug/L			<10	<500		600
1,4-Dichlorobenzene	ug/L			<10	<500		75
Dichlorodifluoromethane	ug/L			<30	<1500		1000
1,1-Dichloroethane	ug/L			<10	<500		70
1,2-Dichloroethane	ug/L			<10	<500		5
1,1-Dichloroethane	ug/L			14.7	<1000		7
cis-1,2-Dichloroethene	ug/L			1940	<500		70
trans-1,2-Dichloroethene	ug/L			14.5	<500		100
1,2-Dichloropropane	ug/L			<10	<500		5
1,3-Dichloropropane	ug/L			<10	<500		N/S
2,2- Dichloropropane	ug/L			<10	<500		N/S
1,1-Dichloropropene	ug/L			<10	<500		N/S
cis-1,3-Dichloropropene	ug/L			<10	<500		1
trans-1,3-Dichloropropene	ug/L			<10	<500		1
Ethylbenzene	ug/L	<2.0		246	<500	<4.0	700
Hexachlorobutadiene	ug/L			<50	<2500		1
Isopropylbenzene	ug/L			<10	<500		N/S
p-Isopropyltoluene	ug/L			17.4	<500		N/S
Methylene Chloride	ug/L			<100	<5000		5
MTBE	ug/L			<10	<500		20

Table Series 3.2
Analytical Results of Groundwater Samples
Clinton Engines Property
Maquoketa, Iowa
MSA No. C99E028

1)

PARAMETERS	units	B-1	B-2	B-3	B-6	B-9	Statewide Standard
Naphthalene	ug/L			58.9	<2500		20
n-Propylbenzene	ug/L			13	<500		N/S
Styrene	ug/L			<10	<500		100
1,1,1,2-Tetrachloroethane	ug/L			<10	<500		70
1,1,2,2-Tetrachloroethane	ug/L			<10	<500		N/S
Tetrachloroethene	ug/L			<10	<500		5
Toluene	ug/L	<2.0		72.5	673000	5.8	1000
1,2,3-Trichlorobenzene	ug/L			<50	<2500		N/S
1,2,4-Trichlorobenzene	ug/L			<50	<2500		70
1,1,1-Trichloroethane	ug/L			<10	<500		200
1,1,2-Trichloroethane	ug/L			<10	<500		5
Trichloroethylene	ug/L			170	<500		5
Trichloroflouromethane	ug/L			<40	<2000		2000
1,2,3-Trichloropropane	ug/L			<10	<500		40
1,2,4-Trimethylbenzene	ug/L			148	<500		N/S
1,3,5-Trimethylbenzene	ug/L			39.9	<500		N/S
Vinyl Chloride	ug/L			494	<500		2
Xylenes, Total	ug/L	<3.0		382	<1500	<6.0	10000
PCBs							
PCB 1016/1242	ug/L		<1.0				0.5
PCB 1221	ug/L		<1.0				0.5
PCB 1232	ug/L		<1.0				0.5
PCB 1248	ug/L		<1.0				0.5
PCB 1254	ug/L		<1.0				0.5
PCB 1260	ug/L		<1.0				0.5
PCB 1268	ug/L		<1.0				0.5

pal/wr

Notes:

mg/L = milligrams per liter.

2) ug/L = micrograms per liter.

3) < indicates less than the laboratory detection

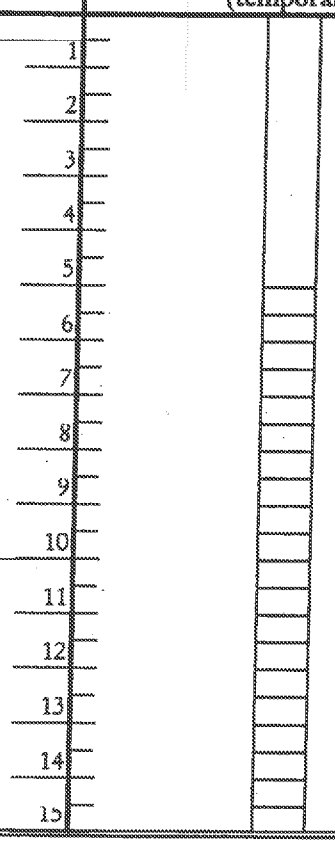
4) Statewide Standard is the general cleanup objective set forth by the Iowa Land Recycling Program for a protected groundwater source (IAC Chap 137).

5) NS = No Standard Available

PROJECT NAME:	Clinton Engines	BORING NO.	B-1
PROJECT NO.	C99E028	SITE LOCATION:	605 East Maple Street Maquoketa, Iowa
DATE OF BORING:	Sept. 23, 1999	DRILLING METHOD:	3 1/4 " Hollow Stem Auger
DRILLED BY:	Geotechnical Services Inc.	TOTAL DEPTH:	15 feet
SCREEN:	2"x10' Sch. 40 PVC @0.01"	CASING:	2" x 5' Sch. 40 PVC

Sample No.	Depth (feet)	Method:	PID (ppm)	LITHOLOGY/REMARKS	WELL COMPLETION (temporary)
				Top Soil	
1	0-2	SS	0	Dark Brown Silty Clay	
2*	5-7	SS	0		
3	10-12	SS	0		
4	15-17	SS	0		
				Grey Silty Clay with Sand	
				End of Boring	

SS: Split Spoon Sample
* Laboratory Sample



MSA
Missman, Stanley & Associates, Prof. Corp.
2415 18th Street, Suite 204, Bettendorf, Iowa 52722
Phone (319)344-0260 Fax (319) 344-0263

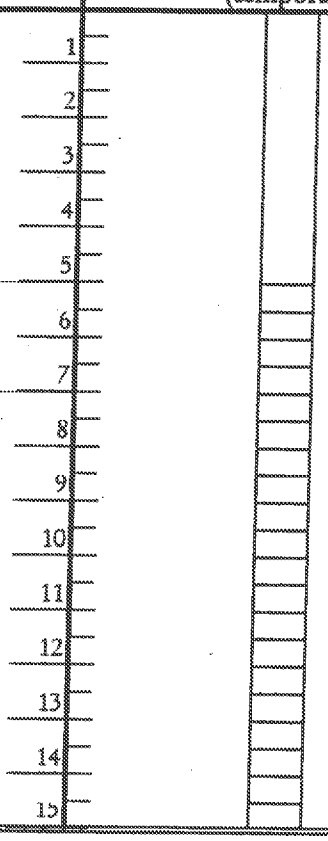
PROJECT Clinton Engines BORING NO.

ED_006017_00000185-00031

PROJECT NAME:	Clinton Engines	BORING NO.	B-2
PROJECT NO.	C99E028	SITE LOCATION:	605 East Maple Street, Maquoketa, Iowa
DATE OF BORING:	Sept. 23, 1999	DRILLING METHOD:	3 1/4 " Hollow Stem Auger
DRILLED BY:	Geotechnical Services Inc.	TOTAL DEPTH:	15 feet
SCREEN:	2"x10' Sch. 40 PVC @0.01"	CASING:	2"x 5' Sch. 40 PVC

Sample No.	Depth (feet)	Method:	PID (ppm)	LITHOLOGY/REMARKS	WELL COMPLETION (temporary)
1	0-2	SS	1	Foundry Sand with Iron Slag	
2	5-7	SS	0		
3*	10-12	SS	0		
4	15-17	SS	0		
				Brown Silty Clay	
				Grey and Brown Silty Clay	
				End of Boring	

SS: Split Spoon Sample
* Laboratory Sample



Missman, Stanley & Associates, Prof. Corp.
2415-18th Street, Suite 203, Bettendorf, Iowa 52722
Phone (319)344-0260 Fax (319)

PROJECT NAME:	Clinton Engines	BORING NO.	B-3
PROJECT NO.	C99E028	SITE LOCATION:	605 East Maple Street Maquoketa, Iowa
DATE OF BORING:	Sept. 23, 1999	DRILLING METHOD:	3 1/4 " Hollow Stem Auger
DRILLED BY:	Geotechnical Services Inc.	TOTAL DEPTH:	15 feet
SCREEN:	2"x10' Sch. 40 PVC @0.01"	CASING:	2"x 5' Sch. 40 PVC

Sample No.	Depth (feet)	Method:	PID (ppm)
1	0-2	SS	30
2	2-4	AS	35
3	5-7	SS	75
4	10-12	SS	97

AS: Auger Sample
SS: Split Spoon Sampler
* Laboratory Sample

LITHOLOGY/REMARKS

Top Soil

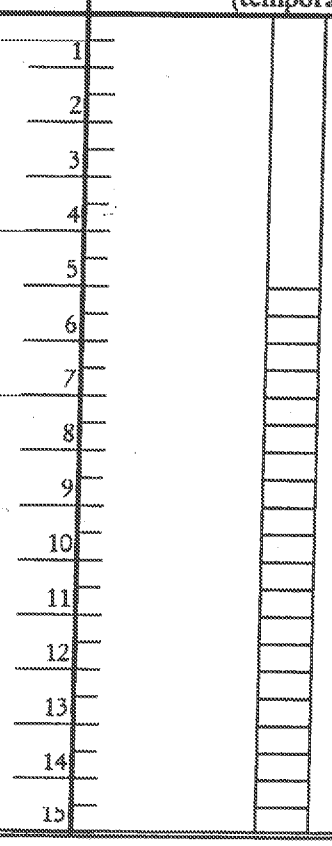
Black Foundry Sand

Grey Silty Clay

Olive and Grey Silty Clay with Sand

End of Boring

WELL COMPLETION (temporary)



PROJECT NAME:	Clinton Engines	BORING NO.	B-4
PROJECT NO.	C99E028	SITE LOCATION:	605 East Maple Street Maquoketa, Iowa
DATE OF BORING:	Sept. 23, 1999	DRILLING METHOD:	3 1/4 " Hollow Stem Auger
DRILLED BY:	Geotechnical Services Inc.	TOTAL DEPTH:	12 feet
SCREEN:	None	CASING:	None

Sample No.	Depth (feet)	Method:	PID (ppm)	LITHOLOGY/REMARKS	WELL COMPLETION (None)
				Top Soil	
1	0-2	SS	3	Foundry Sand	
2	5-7	SS	3		
3*	10-12	SS	50		
				Brown and Olive Silty Clay	
				Olive and Grey Silty Clay with Sand	
				End of Boring	

SS: Split Spoon Sampler
* Laboratory Sample

ED_006017_00000185-00034

PROJECT NAME:	Clinton Engines	BORING NO.	B-6
PROJECT NO.	C99E028	SITE LOCATION:	605 East Maple Street Maquoketa, Iowa
DATE OF BORING:	Sept. 24, 1999	DRILLING METHOD:	3 1/4 " Hollow Stem Auger
DRILLED BY:	Geotechnical Services Inc.	TOTAL DEPTH:	15 feet
SCREEN:	2"x10' Sch. 40 PVC @0.01"	CASING:	2"x 5' Sch. 40 PVC

Sample No.	Depth (feet)	Method:	PID (ppm)
1	0-2	SS	0
2	5-7	AS	0
3*	10-12	SS	1400
4	15-17	SS	1320

AS: Auger Sample
SS: Split Spoon Sampler
* Laboratory Sample

LITHOLOGY/REMARKS

Top Soil

Foundry Sand

Brown Silty Clay
Olive @ 6'

Light Brown Silty Clay

Olive Silty Clay with Sand

End of Boring

WELL COMPLETION
(temporary)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PROJECT NAME:	Clinton Engines	BORING NO.	B-7
PROJECT NO.	C99E028	SITE LOCATION:	605 East Maple Street Maquoketa, Iowa
DATE OF BORING:	Sept. 24, 1999	DRILLING METHOD:	3 1/4 " Hollow Stem Auger
DRILLED BY:	Geotechnical Services Inc.	TOTAL DEPTH:	12 feet
SCREEN:	None	CASING:	None

Sample No.	Depth (feet)	Method:	PID (ppm)
1	0-2	SS	0
2*	5-7	SS	3
3	10-12	SS	0

SS: Split Spoon Sampler
* Laboratory Sample

LITHOLOGY/REMARKS

Top Soil

Foundry Sand with Iron Slag and Glass

Brown and Grey Silty Clay

Medium Brown Silty Clay with Sand

End of Boring

WELL COMPLETION (None)

PROJECT NAME:	Clinton Engines	BORING NO.	B-8
PROJECT NO.	C99E028	SITE LOCATION:	605 East Maple Street Maquoketa, Iowa
DATE OF BORING:	Sept. 24, 1999	DRILLING METHOD:	3 1/4 " Hollow Stem Auger
DRILLED BY:	Geotechnical Services Inc.	TOTAL DEPTH:	12 feet
SCREEN:	None	CASING:	None

Sample No.	Depth (feet)	Method:	PID (ppm)	LITHOLOGY/REMARKS	WELL COMPLETION (None)
				Top Soil	
1*	0-2	SS	3	Black Foundry Sand	
2	5-7	SS	1		
3	10-12	SS	0		
				Brown to Olive Silty clay with sand	

SS: Split Spoon Sampler
* Laboratory Sample

End of Boring

ED_006017_00000185-00038

PROJECT NAME:	Clinton Engines	BORING NO:	B-9
PROJECT NO.	C99E028	SITE LOCATION:	605 East Maple Street Maquoketa, Iowa
DATE OF BORING:	Sept. 24, 1999	DRILLING METHOD:	3 1/4 " Hollow Stem Auger
DRILLED BY:	Geotechnical Services Inc.	TOTAL DEPTH:	25 feet
SCREEN:	2"x10' Sch. 40 PVC @0.01"	CASING:	2"x 15' Sch. 40 PVC

Sample No.	Depth (feet)	Method:	PID (ppm)
1	0-3	SS	0
2	5-7	SS	0
3	10-12	SS	3
4	15-17	SS	5*
5	20-22	SS	1

SS: Split Spoon Sampler
* Laboratory Sample

LITHOLOGY/REMARKS

Top Soil

Dark brown silty clay

Brown silty clay

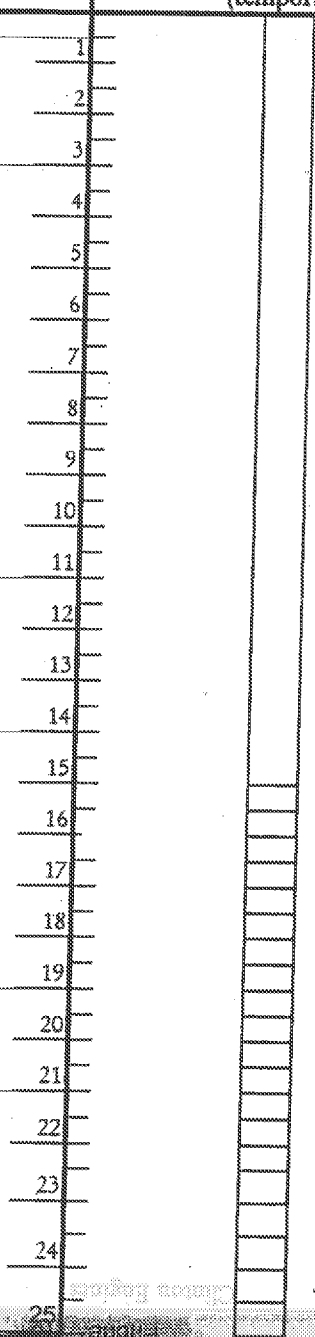
Brown silty clay with sand

Brn to grey silty clay

Brn to grey silty clay with sand

Brn medium sand

WELL COMPLETION (temporary)



PROJECT NAME: Clinton Engines BORING NO:

Table 1
Summary of Asbestos Samples
Clinton Engines Property
Maquoketa, Iowa
MSA No. C99E208

Sample No.	Color	Description	Contains Asbestos	% Asbestos Content	Condition
B1-WB-1	black	base molding (throughout building)	Yes	10%	damaged
B1-WS-1,2,3,4,5	white	wall plaster	No	-	-
B1-BRRF-1	light brown	basement mens restroom /basement south closet floor tile	Yes	12%	damaged
B1-BT-1,2,3	yellow	basement thermal insulation	No	-	-
B1-R-1,2,3	black	building 1 roofing & flashing	No	-	-
B2-RF-1	black	Building 2 roof flashing	Yes	20%	damaged
B2-R-1,2,3	black	building 2 roof material	No	-	damaged
B2-T-1,2,3	yellow	building 2 thermal insulation	No	-	-
B3-ET-1,2,3	white	thermal insulation in equipment	No	-	-
B4-CR-1,2,3	white	building 4 ceiling & roof material	No	-	-
B1-EO-1,2,3	red w/ black	East offices, 1st floor & basement floor tile	Yes	5-7%	damaged
B1-CT1-1,2,3	white/uneven grooved lines	west & north offices ceiling tile	No	-	-
B1-CT2-1,2,3	white/straight lines	south office ceiling tile	No	-	-
B1-CT3-1,2,3	white/circles	hallway, entry, basement offices	No	-	-
B1-WO-1,2,3	green/black swirls	west offices linoleum	Yes	5-10%	damaged
B1-NO1-1,2,3	brown	northwest office floor tile	No	-	-
B1-NO2-1,2,3	dark brown	north office floor tile	No	-	-
B1-SO-1,2,3	brown w/maroon swirl	south office linoleum	Yes	2-3%	damaged
B1-EFT-1,2,3	light green	entrance stairway floor tile	Yes	5-7%	good
B1-WAF-1,2,3	green	waiting area floor tile	No	-	-
B1-HFT-1,2,3	brown	hallway and southern exit floor tile	No	-	-
B1-RRFT-1	green w/ black specs	women's restroom and mop room floor tile	Yes	10-12%	damaged

Notes: 1) Asbestos sample locations identified on Figures 3 and 4, Appendix A.

wr

ED_006017_00000185-00039

APPENDIX C

Environmental Database Report

ED_006017_00000185-00040

DataMap Technology Corporation

Environmental FirstSearch™ Report

TARGET PROPERTY:

605 EAST MAPLE ST

MAQUOKETA IA 52060

Job Number: MISSMAN

PREPARED FOR:

Missman Stanley & Associates

2415 18th Street, Suite 203

Bettendorf, Iowa 52722

09-14-99

Environmental FIRSTSEARCH

Tel: (773) 645-8001 *Fax: (773) 645-8501*

Environmental FirstSearch is a registered trademark of DataMap Technology Corporation. All rights reserved.

Environmental FirstSearch
Search Summary Report

Target Site: 605 EAST MAPLE ST
MAQUOKETA IA 52060

FirstSearch Summary

Database	Sel	Updated	Radius	Site	1/8	1/4	1/2	1/2 >	ZIP	TOTALS
NPL	Y	05-12-99	1.00	0	0	0	0	0	0	0
CERCLIS	Y	05-12-99	0.50	0	0	1	0	-	0	1
RCRA TSD	Y	04-27-99	0.50	0	0	0	0	-	0	0
RCRA COR	Y	04-27-99	1.00	0	0	0	0	0	0	0
RCRA GEN	Y	04-27-99	0.25	1	0	0	-	-	4	5
RCRA NLR	N	04-27-99	0.25	-	-	-	-	-	-	-
ERNS	Y	05-07-99	0.25	0	0	0	-	-	0	0
NPDES	N	07-22-98	0.25	-	-	-	-	-	-	-
FINDS	N	01-20-99	0.25	-	-	-	-	-	-	-
TRIS	N	07-16-98	0.25	-	-	-	-	-	-	-
STATE SITES	Y	11-17-98	1.00	0	0	0	0	0	1	1
SPILLS-1990	N	NA	0.25	-	-	-	-	-	-	-
SPILLS-1980	N	NA	0.25	-	-	-	-	-	-	-
SWL	Y	09-14-98	0.50	0	0	0	0	-	1	1
PERMITS	N	NA	0.25	-	-	-	-	-	-	-
OTHER	N	NA	0.25	-	-	-	-	-	-	-
REG UST/AST	Y	11-17-98	0.25	1	0	4	-	-	29	34
LEAKING UST	Y	11-17-98	0.50	0	0	3	4	-	8	15
ACTIVE PWS	N	NA	0.50	-	-	-	-	-	-	-
AQUIFERS	N	NA	0.50	-	-	-	-	-	-	-
ACEC	N	NA	0.50	-	-	-	-	-	-	-
WETLANDS	N	NA	0.50	-	-	-	-	-	-	-
FLOODPLAINS	N	NA	0.50	-	-	-	-	-	-	-
RECEPTORS	Y	NA	0.50	0	0	0	0	-	0	0
- TOTALS -				2	0	8	4	0	43	57

Notice of Disclaimer

Due to the limitations, constraints, inaccuracies and incompleteness of government information and computer mapping data currently available to DataMap Technology Corp., certain conventions have been utilized in preparing the locations of all federal, state and local agency sites residing in DataMap Technology Corp.'s databases. All EPA NPL and state landfill sites are depicted by a rectangle approximating their location and size. The boundaries of the rectangles represent the eastern and western most longitudes; the northern and southern most latitudes. As such, the mapped areas may exceed the actual areas and do not represent the actual boundaries of these properties. All other sites are depicted by a point representing their approximate address location and make no attempt to represent the actual areas of the associated property. Actual boundaries and locations of individual properties can be found in the files residing at the agency responsible for such information.

Waiver of Liability

Although DataMap Technology Corp. uses its best efforts to research the actual location of each site, DataMap Technology Corp. does not and can not warrant the accuracy of these sites with regard to exact location and size. All authorized users of DataMap Technology Corp.'s services proceeding are signifying an understanding of DataMap Technology Corp.'s searching and mapping conventions, and agree to waive any and all liability claims associated with search and map results showing incomplete and or inaccurate site locations.

Environmental FirstSearch
Site Information Report

Request Date: 09-14-99
Requestor Name: Paul Loete
Standard: ASTM

Search Type: COORD
Job Number: MISSMAN

Target Address: 605 EAST MAPLE ST
MAQUOKETA IA 52060

Demographics

Sites: 57 **Non-Geocoded:** 43 **Population:** NA
Radon: 2.9 - 33 PCI/L

Site Location

	Degrees (Decimal)	Degrees (Min/Sec)		UTMs
Longitude:	-90.658639	-90:39:31	**Easting:**	693716.217
Latitude:	42.066062	42:3:58	**Northing:**	4659550.033
			Zone:	15

Comment

Comment: CLINTON ENGINES

Additional Requests/Services

Adjacent ZIP Codes: **1.00 Mile(s)**

ZIP Code	City Name	ST	Dist/Dir	Sel

Services:

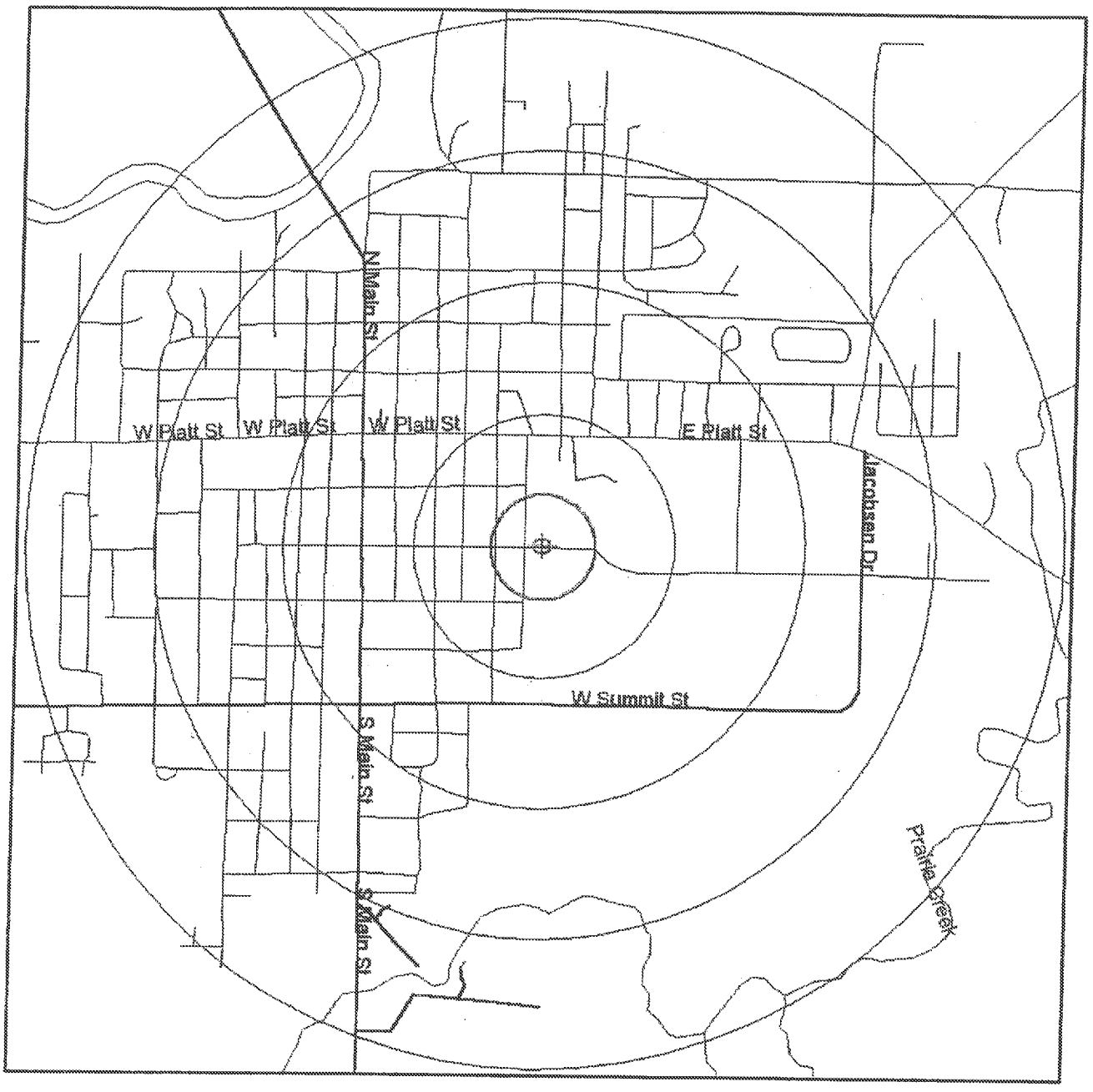
	Requested?	Date
Sanborns	N	
Aerial Photographs	N	
Topographical Maps	N	

Environmental FirstSearch

1 Mile Radius

ASTM Map: NPL, RCRACOR, STATE Sites

605 EAST MAPLE ST, MAQUOKETA IA 52060



Source: 1994 U.S. Census TIGER Files

Target Site, Area Rectangle, Linear Search Line .....

Identified Site, Multiple Sites, Receptor .....

NPL, Solid Waste Landfill (SWL) or Hazardous Waste .....

Boundaries: Target ZIP, Adjacent ZIP .....

Railroads .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.5 Mile Radius

ASTM Map: CERCLIS, RCRATSD, LUST, SWL

605 EAST MAPLE ST, MAQUOKETA IA 52060

Source: 1994 U.S. Census TIGER Files

Target Site, Area Rectangle, Linear Search Line .....

Identified Site, Multiple Sites, Receptor .....

NPL, Solid Waste Landfill (SWL) or Hazardous Waste .....

Boundaries: Target ZIP, Adjacent ZIP .....

Railroads .....

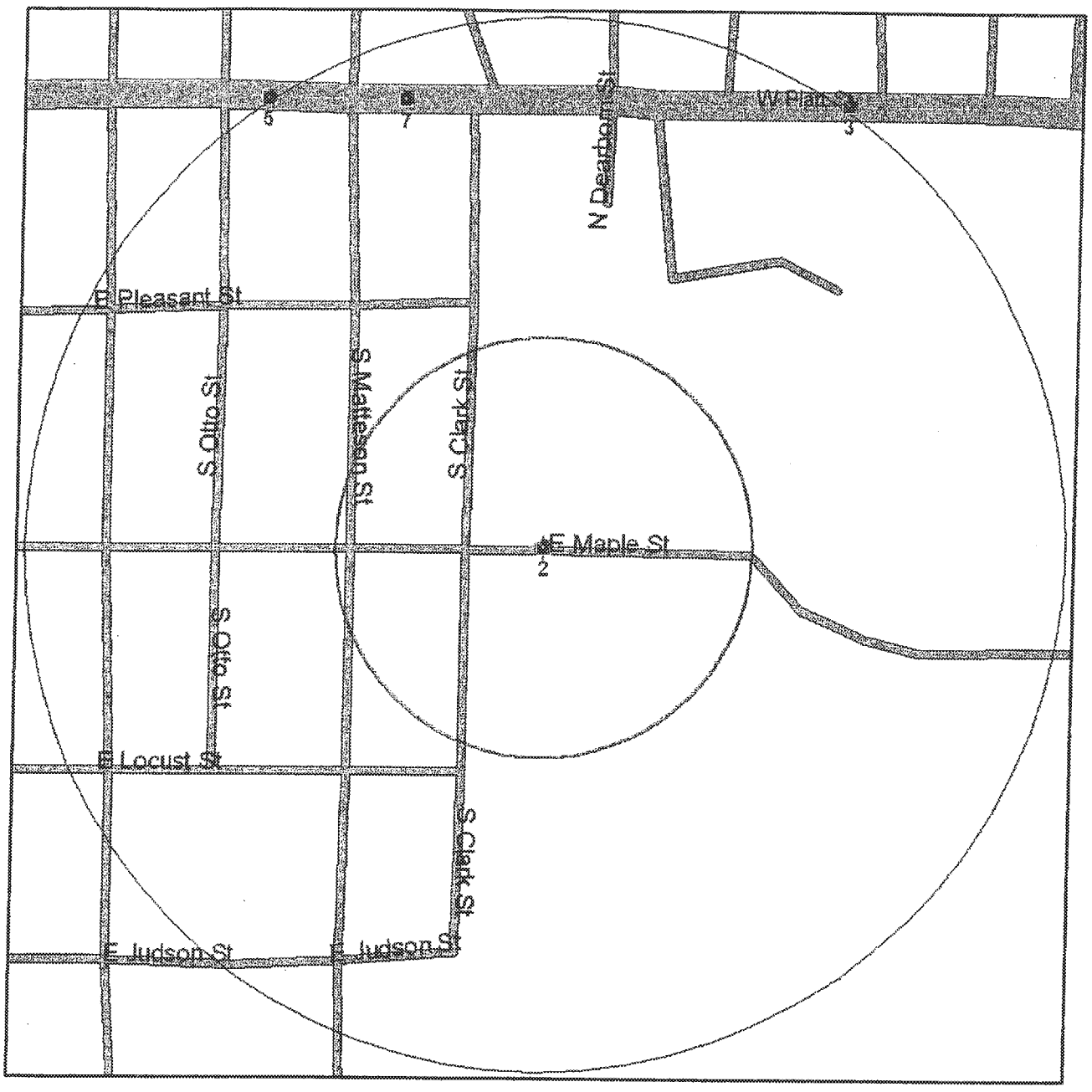
Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch

.25 Mile Radius

ASTM Map: RCRAGEN, ERNS, UST

605 EAST MAPLE ST, MAQUOKETA IA 52060



Source: 1994 U.S. Census TIGER Files

Target Site, Area Rectangle, Linear Search Line .....

Identified Site, Multiple Sites, Receptor .....

NPL, Solid Waste Landfill (SWL) or Hazardous Waste .....

Boundaries: Target ZIP, Adjacent ZIP .....

Railroads .....

Black Rings Represent 1/4 Mile Radii; Red Ring Represents 500 ft. Radius

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

TOTAL: 57 **GEOCODED:** 14 **NON GEOCODED:** 43 **SELECTED:** 29

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
2	RCRAGN	CLINTON ENGINES CORP IAD980317432/VGN	605 E MAPLE MAQUOKETA IA 52060	0.00 --	2
27	UST	CLINTON ENGINES CORPORATION 8601871	CLARK & MAPLE STREETS MAQUOKETA IA 52060	0.00 --	2
6	UST	8609215	510 E PLATT MAQUOKETA IA 52060	0.22 NW	7
11	LUST	FORMER ROADSIDE AUTO SALES 7910173	501 E PLATT STREET MAQUOKETA IA 52060	0.22 NW	7
5	UST	FORMER ROADSIDE AUTO SALES 7910173	501 E PLATT STREET MAQUOKETA IA 52060	0.22 NW	7
1	CERCLIS	MAQUOKETA FMGP IAD984571877/ARCHIVE-N	109 S MATTESON MAQUOKETA IA 52060	0.23 NW	1
3	UST	CASEYS 8605566	801 EAST PLATT ST MAQUOKETA IA 52060	0.25 NE	3
7	LUST	CASEYS 8605566	801 EAST PLATT ST MAQUOKETA IA 52060	0.25 NE	3
4	UST	DUDE S 66 8607320	409 EAST PLATT MAQUOKETA IA 52060	0.25 NW	5
9	LUST	DUDE S 66 8607320	409 EAST PLATT MAQUOKETA IA 52060	0.25 NW	5
8	LUST	COASTAL MART #2438 8602872	302 E PLATT MAQUOKETA IA 52060	0.30 NW	4
10	LUST	EAST PLATT NORTH STARR 8603860	303 EAST PLATT MAQUOKETA IA 52060	0.30 NW	6
13	LUST	U S WEST 8607726	121 N OLIVE MAQUOKETA IA 52060	0.38 NW	8
12	LUST	MAQUOKETA WEB PRINTING 8913804	1209 E MAPLE ST MAQUOKETA IA 52060	0.43 SE	9

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

TOTAL: 57 **GEOCODED:** 14 **NON GEOCODED:** 43 **SELECTED:** 29

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
49	UST	8606163	RT 4 BOX 10 MAQUOKETA IA 52060	NON GC	
20	UST	ANAMOSA SILOS INC 8601117	RR 2 MAQUOKETA IA 52060	NON GC	
21	UST	ARTHUR BLOORE FARM 8811661	RTE 1 COUNTRY ROAD MAQUOKETA IA 52060	NON GC	
22	UST	BRIGGS ELEMENTARY SCHOOL 8602547	WEST QUARRY MAQUOKETA IA 52060	NON GC	
23	UST	C & J SERVICE CO 8606094	HIGHWAY 61 MAQUOKETA IA 52060	NON GC	
50	LUST	C & J SERVICE CO 8606094	HIGHWAY 61 MAQUOKETA IA 52060	NON GC	
24	UST	CARDINAL ELEMENTARY SCHOOL 8602546	PERSHING RD MAQUOKETA IA 52060	NON GC	
25	UST	CENTURY CONCRETE CO 8602680	RR 3 MAQUOKETA IA 52060	NON GC	
26	UST	CITY HALL 8601638	500 N MAIN MAQUOKETA IA 52060	NON GC	
28	UST	COUNTY SHED #5 8604639	RR 2 MAQUOKETA IA 52060	NON GC	
29	UST	FLOYD CORNELIUS 8915154	RTE 1 MAQUOKETA IA 52060	NON GC	
51	LUST	FORMER MICHELS AUTO-TRUCK INC 8600364	HWY 61 BYPASS MAQUOKETA IA 52060	NON GC	
30	UST	FORMER MICHELS AUTO-TRUCK INC 8600364	HWY 61 BYPASS MAQUOKETA IA 52060	NON GC	
31	UST	GARY PETERSEN 8914074	RTE 4 BOX 102 MAQUOKETA IA 52060	NON GC	
14	RCRAGN	GILMORE DRY CLEANERS IAD043184993/SGN	110 1/2 S JONES ST MAQUOKETA IA 52060	NON GC	
32	*UST*	*GOLDEN SUN FEEDS INC* *8602369*	*PERSHING & OTTO* *MAQUOKETA IA 52060*	*NON GC*	
33	UST	HAROLD SCHEPERS 8912369	RTE 1 MAQUOKETA IA 52060	NON GC	
52	*LUST*	*IDOT* *8609261*	*IA 64 EAST* *MAQUOKETA IA 52060*	*NON GC*	
34	*UST*	*IDOT* *8609261*	*IA 64 EAST* *MAQUOKETA IA 52060*	*NON GC*	
15	*RCRAGN*	*IOWA DEPT OF TRANSPORTATION* *IAD981499643/SGN*	*E PLATT ST (HWY 64)* *MAQUOKETA IA 52060*	*NON GC*	

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

TOTAL: 57 **GEOCODED:** 14 **NON GEOCODED:** 43 **SELECTED:** 29

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
19	*SWL*	*IOWA MEDICAL WASTE REDUCTION CENTER* *49-SDP-04-93-P*	*MAQUOKETA IA 52060*	*NON GC*	
53	LUST	JACKSON CO SPRINGBROOK SHOP 8604635	RR 3 BELLEVUE IA 52060	NON GC	
35	UST	JACKSON CO SPRINGBROOK SHOP 8604635	RR 3 BELLEVUE IA 52060	NON GC	
36	UST	JACKSON COUNTY SANITARY DISPOSAL AG 8605969	RR 3 MAQUOKETA IA 52060	NON GC	
37	*UST*	*JOHN MAROUSIS* *8914828*	*HWY 64 W* *MAQUOKETA IA 52060*	*NON GC*	
38	UST	KEITH KENNIKER 8916204	RTE 4 MAQUOKETA IA 52060	NON GC	
39	*UST*	*KIRCHHOFF DIST* *7900031*	*106,108&110 MATTESON ST* *MAQUOKETA IA 52060*	*NON GC*	
54	*LUST*	*KIRCHHOFF DIST* *7900031*	*106,108&110 MATTESON ST* *MAQUOKETA IA 52060*	*NON GC*	
40	*UST*	*KOON & BOWMAN STD* *8606813*	*EAST PLATT* *MAQUOKETA IA 52060*	*NON GC*	
41	UST	LA VERNE M ROBERG 8914827	RTE 1 BOX 102 MAQUOKETA IA 52060	NON GC	
42	UST	LARRY JOHNSON 8915430	RTE 4 MAQUOKETA IA 52060	NON GC	
43	UST	LAVERNS STORE 8605449	R 2 MAQUOKETA IA 52060	NON GC	
55	LUST	LAZY J MOTEL 7900036	RR #1, BOX 112 MAQUOKETA IA 52060	NON GC	
44	UST	LAZY J MOTEL 7900036	RR #1, BOX 112 MAQUOKETA IA 52060	NON GC	
45	UST	MAQUOKETA CAVES ST PARK 8605931	RR 2 BOX 212 MAQUOKETA IA 52060	NON GC	
18	*STATE*	*MAQUOKETA COAL GAS* *U49-0001*	*MAQUOKETA IA 52060*	*NON GC*	
46	*UST*	*MAQUOKETA MUNICIPAL AIRPORT* *9117236*	*HIGHWAY 64 WEST* *MAQUOKETA IA 52060*	*NON GC*	
56	*LUST*	*MAQUOKETA MUNICIPAL AIRPORT* *9117236*	*HIGHWAY 64 WEST* *MAQUOKETA IA 52060*	*NON GC*	
47	*UST*	*REICHLING OIL CORP* *7910177*	*SOUTH ALLEN STREET* *MAQUOKETA IA 52060*	*NON GC*	
57	*LUST*	*REICHLING OIL CORP* *7910177*	*SOUTH ALLEN STREET* *MAQUOKETA IA 52060*	*NON GC*	

Environmental FirstSearch
Sites Summary Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

TOTAL: 57 **GEOCODED:** 14 **NON GEOCODED:** 43 **SELECTED:** 29

ID	DB Type	Site Name/ID/Status	Address	Dist/Dir	Map ID
16	RCRAGN	S & H FABRICATING & ENG OF IOWA IAD984593731/SGN	1201 E SUMMIT MAQUOKETA IA 52060	NON GC	
48	*UST*	*U S WEST* *8607793*	*HIWAY Y-31* *MAQUOKETA IA 52060*	*NON GC*	
17	RCRAGN	WADY INDUSTRIES INC IAD069940021/SGN	510 E GROVE MAQUOKETA IA 52060	NON GC	

Environmental FirstSearch
Site Detail Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

RCRA GENERATOR SITE

SEARCH ID: 2 **DIST/DIR:** 0.00 -- **MAP ID:** 2

NAME: CLINTON ENGINES CORP
ADDRESS: 605 E MAPLE
MAQUOKETA IA 52060
JACKSON
CONTACT: MELROY J.T.

REV:
ID1: IAD980317432
ID2:
STATUS: VGN
PHONE: 3196522411

ADDRESS: 605 E MAPLE PO BOX 860
MAQUOKETA IA 52060

NOTIFIED:
PART A:

ACTIVITIES: VG: GENERATES LESS THAN 100 KG/MONTH OF HAZARDOUS WASTE

CM+E LIST:
RAATS:

VIOL DATE: 03-04-97
ACTION DATE:

AGENCY: E
DOCKET:

UPDATED: 11-10-98
UPDATED:

VIOL: GER
NUM: 4
ENF:
DATE:

ASSESS:

SETTLE:

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 27 **DIST/DIR:** 0.00 -- **MAP ID:** 2

NAME: CLINTON ENGINES CORPORATION
ADDRESS: CLARK & MAPLE STREETS
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8601871
ID2:
STATUS:
PHONE: (000) 0000000

TOTAL NUMBER OF TANKS: 6

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: CLINTON ENGINES CORPORATION
OWNER ADDRESS: CLARK & MAPLE STREETS
MAQUOKETA IA 520600000
OWNER CONTACT NAME:
OWNER CONTACT PHONE: (000) 0000000

UST INFORMATION

TANK NUMBER: 001
TANK INSTALLED DATE: 1975
TANK STATUS: NON-REGULATED HEATING OIL TANK - ACTIVE
TANK IN USE?:
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 020000 GALLONS
TANK CONTENTS: DIESEL
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED:
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

TANK NUMBER: 002

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 27 **DIST/DIR:** 0.00 -- **MAP ID:** 2

NAME: CLINTON ENGINES CORPORATION
ADDRESS: CLARK & MAPLE STREETS
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8601871
ID2:
STATUS:
PHONE: (000) 0000000

TANK INSTALLED DATE: 1962
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 07/1978
TANK CAPACITY: 001000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED:
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

TANK NUMBER: 003
TANK INSTALLED DATE: 1962
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 07/1978
TANK CAPACITY: 002000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 27 **DIST/DIR:** 0.00 -- **MAP ID:** 2

NAME: CLINTON ENGINES CORPORATION
ADDRESS: CLARK & MAPLE STREETS
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8601871
ID2:
STATUS:
PHONE: (000) 0000000

GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED:
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

TANK NUMBER: 004
TANK INSTALLED DATE: 1972
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 07/1978
TANK CAPACITY: 001000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED:
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

TANK NUMBER: 005
TANK INSTALLED DATE: 1958
TANK STATUS: NON-REGULATED HEATING OIL TANK - ACTIVE
TANK IN USE?:
DATE TANK LAST USED: 00/0000

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 27 **DIST/DIR:** 0.00 – **MAP ID:** 2

NAME: CLINTON ENGINES CORPORATION
ADDRESS: CLARK & MAPLE STREETS
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8601871
ID2:
STATUS:
PHONE: (000) 0000000

TANK CAPACITY: 020000 GALLONS
TANK CONTENTS: DIESEL
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED:
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

TANK NUMBER: 007
TANK INSTALLED DATE: 1974
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 07/1979
TANK CAPACITY: 001000 GALLONS
TANK CONTENTS: HAZARDOUS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

Environmental FirstSearch
Site Detail Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 6 **DIST/DIR:** 0.22 NW **MAP ID:** 7

NAME:
ADDRESS: 510 E PLATT
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8609215
ID2:
STATUS:
PHONE: (000) 0000000

TOTAL NUMBER OF TANKS: 4

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: RALPH DIGMAN
OWNER ADDRESS: NAPA HGHY 20 WEST
DUBUQUE IA 520010000
OWNER CONTACT NAME:
OWNER CONTACT PHONE: (000) 0000000

UST INFORMATION

TANK NUMBER: 001
TANK INSTALLED DATE: 1945
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 002000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION: UNKNOWN
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED:
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

TANK NUMBER: 002

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 6 **DIST/DIR:** 0.22 NW **MAP ID:** 7

NAME:
ADDRESS: 510 E PLATT
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8609215
ID2:
STATUS:
PHONE: (000) 0000000

TANK INSTALLED DATE: 1955
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 004000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION: UNKNOWN
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED:
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

TANK NUMBER: 003
TANK INSTALLED DATE: 1955
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 004000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION: UNKNOWN
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 6 **DIST/DIR:** 0.22 NW **MAP ID:** 7

NAME:
ADDRESS: 510 E PLATT
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8609215
ID2:
STATUS:
PHONE: (000) 0000000

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
BARE STEEL:
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

TANK NUMBER: 004
TANK INSTALLED DATE: 1955
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 005100 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INT. CATHODIC PROTECTION:
INTERNALLY LINED:
EXT. CATHODIC PROTECTION:
EXTERNALLY WRAPPED:
EXTERNALLY COATED:
EXTERNALLY PAINTED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION: UNKNOWN

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
BARE STEEL:
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 11 **DIST/DIR:** 0.22 NW **MAP ID:** 7

NAME: FORMER ROADSIDE AUTO SALES
ADDRESS: 501 E PLATT STREET
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 7910173
ID2:
STATUS:
PHONE: (000) 0000000

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: DON DAEHLER
OWNER ADDRESS: 113 N ANDERSON
MAQUOKETA IA 520600000
OWNER CONTACT NAME:
OWNER CONTACT PHONE: (000) 0000000

LEAK INFORMATION

FACILITY TANK INFORMATION

LEAK NUMBER: 9LTA76
LEAK DISCOVERY DATE: 12/03/92
LEAK DISCOVERY TIME:

DATE LEAK OCCURRED: 00/00/00
TIME LEAK OCCURRED:

DATE LEAK REPORTED TO DEP: 12/05/94
LEAK REPORTER NAME: H MORTON-DAVIS
LEAK REPORTER COMPANY: SENECA
LEAK REPORTER ADDRESS: 5113 TREMONT AVE
DAVENPORT IA 52807
LEAK REPORTER PHONE: (319) 386-2522

CAUSE OF LEAK: UNK

PRODUCT RELEASED

GAS:	X	**DIESEL:**	
WASTE OIL:		**KEROSENE:**	
FUEL OIL:		**HOIST OIL:**	
OTHER PETROLEUM:		**UNKNOWN:**	
NON-PETROL./CHEMICAL:			

LOCATION OF LEAK

SOIL:	X	**GROUND WATER:**	X
SURFACE WATER:		**WATER SUPPLY:**	

RESOURCES THREATENED

MUNICIPAL WELLS:		**PRIVATE WELLS:**	
LIVESTOCK:		**NONE:**	

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 11 **DIST/DIR:** 0.22 NW **MAP ID:** 7

NAME: FORMER ROADSIDE AUTO SALES
ADDRESS: 501 E PLATT STREET
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 7910173
ID2:
STATUS:
PHONE: (000) 0000000

UNKNOWN:

OTHER:

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 5 **DIST/DIR:** 0.22 NW **MAP ID:** 7

NAME: FORMER ROADSIDE AUTO SALES
ADDRESS: 501 E PLATT STREET
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 7910173
ID2:
STATUS:
PHONE: (000) 0000000

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: DON DAEHLER
OWNER ADDRESS: 113 N ANDERSON
MAQUOKETA IA 520600000
OWNER CONTACT NAME:
OWNER CONTACT PHONE: (000) 0000000

UST INFORMATION

CERCLIS SITE

SEARCH ID: 1 **DIST/DIR:** 0.23 NW **MAP ID:** 1

NAME: MAQUOKETA FMGP
ADDRESS: 109 S MATTESON
MAQUOKETA IA 52060
JACKSON
CONTACT: , O - IA STATE COOR

REV:
ID1: IAD984571877
ID2: 0702338
STATUS: ARCHIVE-N
PHONE: 9135517818

DESCRIPTION:
FORMER MANUFACTURED COAL GAS PLANT (FMGP) POTENTIAL ON SITE DISPOSAL OF WASTE OIL/TAR (PAH) AND CYANIDE COMPOUNDS. CURRE NT OWNER: K & F FEED SERVICES, INC. FORMER MANUFACTURED COAL GAS PLANT (FMGP) POTENTIAL ON SITE DISPOSAL OF WASTE OIL/TAR (PAH) AND CYANIDE COMPOUNDS. CURRENT OWNER: K & F FEED SERVICES, INC.

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
DISCOVERY	EPA Fund-Financed		03-22-1990
PRELIMINARY ASSESSMENT Low	EPA Fund-Financed Primary	09-18-1990	10-11-1990
SITE INSPECTION	EPA Fund-Financed	06-20-1991	09-25-1991

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

CERCLIS SITE

SEARCH ID: 1 **DIST/DIR:** 0.23 NW **MAP ID:** 1

NAME: MAQUOKETA FMGP
ADDRESS: 109 S MATTESON
MAQUOKETA IA 52060
JACKSON
CONTACT: , O - IA STATE COOR

REV:
ID1: IAD984571877
ID2: 0702338
STATUS: ARCHIVE-N
PHONE: 9135517818

DESCRIPTION:
FORMER MANUFACTURED COAL GAS PLANT (FMGP) POTENTIAL ON SITE DISPOSAL OF WASTE OIL/TAR (PAH) AND CYANIDE COMPOUNDS. CURRE NT OWNER: K & F FEED SERVICES, INC. FORMER MANUFACTURED COAL GAS PLANT (FMGP) POTENTIAL ON SITE DISPOSAL OF WASTE OIL/TAR (PAH) AND CYANIDE COMPOUNDS. CURRENT OWNER: K & F FEED SERVICES, INC.

ACTION/QUALITY	AGENCY/RPS	START/RAA	END
DISCOVERY	EPA Fund-Financed		03-22-1990
PRELIMINARY ASSESSMENT Low	EPA Fund-Financed Primary	09-18-1990	10-11-1990
SITE INSPECTION NFRAP (No Futher Remedial Action Planned	EPA Fund-Financed Primary	06-20-1991	09-25-1991

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 3 **DIST/DIR:** 0.25 NE **MAP ID:** 3

NAME: CASEYS
ADDRESS: 801 EAST PLATT ST
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8605566
ID2:
STATUS:
PHONE: (000) 0000000

TOTAL NUMBER OF TANKS: 2

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: KNOX CORPORATION
OWNER ADDRESS: PO BOX K
BETTENDORF IA 527220000
OWNER CONTACT NAME:
OWNER CONTACT PHONE: (000) 0000000

UST INFORMATION

TANK NUMBER: 001
TANK INSTALLED DATE: 1978
TANK STATUS: REGULATED TANK - ACTIVE
TANK IN USE?: IN USE
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 010000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:		INT. CATHODIC PROTECTION:	
INTERNALLY LINED:	X	EXT. CATHODIC PROTECTION:	
EXTERNALLY WRAPPED:		EXTERNALLY COATED:	X
EXTERNALLY PAINTED:		EXT. FIBERGLASS REINFORCED PLASTIC:	
EXTERNAL COAL TAR:		EXT. FIBERGLASS REINFORCED URITHANE:	
OTHER EXT. TANK PROTECTION:			

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:	X		
GALVANIZED STEEL:		BARE STEEL:	
CATHODICALLY PROTECTED:		DOUBLE WALL PIPING:	
EXT. DI-ELECTRIC PIPE COATING:			

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:	X	LINE TIGHTNESS TESTED:	X
VAPOR MONITORING WELL:		GROUNDWATER MONITORING WELL:	
MONITORING SPACE ON DBL. WALL:		LINED EXCAVATION:	
AUTOMATIC TANK GAUGING:		MANUAL TANK GAUGING:	

TANK NUMBER: 002

- Continued on next page -

Environmental FirstSearch
Site Detail Report

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 3 **DIST/DIR:** 0.25 NE **MAP ID:** 3

NAME: CASEYS
ADDRESS: 801 EAST PLATT ST
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8605566
ID2:
STATUS:
PHONE: (000) 0000000

TANK INSTALLED DATE: 1978
TANK STATUS: REGULATED TANK - ACTIVE
TANK IN USE?: IN USE
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 010000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:
INTERNALLY LINED: X
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED: X
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC: X
GALVANIZED STEEL:
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR: X
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED: X
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

ED_006017_00000185-00064

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 7 **DIST/DIR:** 0.25 NE **MAP ID:** 3

NAME:	CASEYS	**REV:**	11/17/98
ADDRESS:	801 EAST PLATT ST MAQUOKETA IA 52060 JACKSON	**ID1:**	8605566
		ID2:	
		STATUS:	
CONTACT:		**PHONE:**	(000) 0000000

OWNER INFORMATION

TYPE OF OWNER:	PRIVATE
OWNER NAME:	KNOX CORPORATION
OWNER ADDRESS:	PO BOX K BETTENDORF IA 527220000
OWNER CONTACT NAME:	
OWNER CONTACT PHONE:	(000) 0000000

LEAK INFORMATION

LEAK NUMBER:	7LTW49
LEAK DISCOVERY DATE:	00/00/00
LEAK DISCOVERY TIME:	
DATE LEAK OCCURRED:	00/00/00
TIME LEAK OCCURRED:	
DATE LEAK REPORTED TO DEP:	09/21/90
LEAK REPORTER NAME:	R M KNOW
LEAK REPORTER COMPANY:	KNOX CORP
LEAK REPORTER ADDRESS:	PO BOX K BETTENDORF IA 52722
LEAK REPORTER PHONE:	(319) 359-0356
CAUSE OF LEAK:	UNK

PRODUCT RELEASED

GAS:	X	**DIESEL:**	
WASTE OIL:		**KEROSENE:**	
FUEL OIL:		**HOIST OIL:**	
OTHER PETROLEUM:		**UNKNOWN:**	
NON-PETROL./CHEMICAL:			

LOCATION OF LEAK

SOIL:	X	**GROUND WATER:**	
SURFACE WATER:		**WATER SUPPLY:**	

RESOURCES THREATENED

MUNICIPAL WELLS:		**PRIVATE WELLS:**	
LIVESTOCK:		**NONE:**	
UNKNOWN:	X	**OTHER:**	

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 7 **DIST/DIR:** 0.25 NE **MAP ID:** 3

NAME:	CASEYS	REV:	11/17/98
ADDRESS:	801 EAST PLATT ST	ID1:	8605566
	MAQUOKETA IA 52060	ID2:	
	JACKSON	STATUS:	
CONTACT:		PHONE:	(000) 0000000

FACILITY TANK INFORMATION

TANK NUMBER:	001
TANK STATUS:	REGULATED TANK - ACTIVE
TANK IN USE?:	IN USE
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	010000 GALLONS
TANK CONTENTS:	GAS
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:		INT. CATHODIC PROTECTION:	
INTERNALLY LINED:	X	EXT. CATHODIC PROTECTION:	
EXTERNALLY WRAPPED:		EXTERNALLY COATED:	X
EXTERNALLY PAINTED:		EXT. FIBERGLASS REINFORCED PLASTIC:	
EXTERNAL COAL TAR:		EXT. FIBERGLASS REINFORCED URITHANE:	
OTHER EXT. TANK PROTECTION:			

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:	X		
GALVANIZED STEEL:		BARE STEEL:	
CATHODICALLY PROTECTED:		DOUBLE WALL PIPING:	
EXT. DI-ELECTRIC PIPE COATING:			

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:	X	LINE TIGHTNESS TESTED:	X
VAPOR MONITORING WELL:		GROUNDWATER MONITORING WELL:	
MONITORING SPACE ON DBL. WALL:		LINED EXCAVATION:	
AUTOMATIC TANK GAUGING:		MANUAL TANK GAUGING:	

TANK NUMBER:	002
TANK STATUS:	REGULATED TANK - ACTIVE
TANK IN USE?:	IN USE
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	010000 GALLONS
TANK CONTENTS:	GAS
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:		INT. CATHODIC PROTECTION:	
INTERNALLY LINED:	X	EXT. CATHODIC PROTECTION:	
EXTERNALLY WRAPPED:		EXTERNALLY COATED:	X
EXTERNALLY PAINTED:		EXT. FIBERGLASS REINFORCED PLASTIC:	

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 7 **DIST/DIR:** 0.25 NE **MAP ID:** 3

NAME: CASEYS
ADDRESS: 801 EAST PLATT ST
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8605566
ID2:
STATUS:
PHONE: (000) 0000000

EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC: X
GALVANIZED STEEL:
BARE STEEL:
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR: X
LINE TIGHTNESS TESTED: X
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 4 **DIST/DIR:** 0.25 NW **MAP ID:** 5

NAME: DUDE S 66
ADDRESS: 409 EAST PLATT
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8607320
ID2:
STATUS:
PHONE: (000) 0000000

TOTAL NUMBER OF TANKS: 4

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: REICHLING OIL CORP
OWNER ADDRESS: 409 E PLATT STREET
MAQUOKETA IA 520600000
OWNER CONTACT NAME:
OWNER CONTACT PHONE: (000) 0000000

UST INFORMATION

TANK NUMBER: 001
TANK INSTALLED DATE: 1961
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 004000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED: X
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED:
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

TANK NUMBER: 002

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 4 **DIST/DIR:** 0.25 NW **MAP ID:** 5

NAME:	DUDE S 66	**REV:**	11/17/98
ADDRESS:	409 EAST PLATT	**ID1:**	8607320
	MAQUOKETA IA 52060	**ID2:**	
	JACKSON	**STATUS:**	
CONTACT:		**PHONE:**	(000) 0000000

TANK INSTALLED DATE: 1961
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 004000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED: X
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
CATHODICALLY PROTECTED:
EXT. DI-ELECTRIC PIPE COATING:
BARE STEEL:
DOUBLE WALL PIPING:

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:
VAPOR MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
AUTOMATIC TANK GAUGING:
LINE TIGHTNESS TESTED:
GROUNDWATER MONITORING WELL:
LINED EXCAVATION:
MANUAL TANK GAUGING:

TANK NUMBER: 003
TANK INSTALLED DATE: 1961
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 004000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:
INTERNALLY LINED:
EXTERNALLY WRAPPED:
EXTERNALLY PAINTED:
EXTERNAL COAL TAR:
OTHER EXT. TANK PROTECTION:
INT. CATHODIC PROTECTION:
EXT. CATHODIC PROTECTION:
EXTERNALLY COATED: X
EXT. FIBERGLASS REINFORCED PLASTIC:
EXT. FIBERGLASS REINFORCED URITHANE:

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

REGISTERED UNDERGROUND STORAGE TANKS

SEARCH ID: 4 **DIST/DIR:** 0.25 NW **MAP ID:** 5

NAME:	DUDE S 66	REV:	11/17/98
ADDRESS:	409 EAST PLATT	ID1:	8607320
	MAQUOKETA IA 52060	ID2:	
	JACKSON	STATUS:	
CONTACT:		PHONE:	(000) 0000000

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:			
GALVANIZED STEEL:	X	BARE STEEL:	
CATHODICALLY PROTECTED:		DOUBLE WALL PIPING:	
EXT. DI-ELECTRIC PIPE COATING:			

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:	LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:	GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:	LINED EXCAVATION:
AUTOMATIC TANK GAUGING:	MANUAL TANK GAUGING:

TANK NUMBER:	004
TANK INSTALLED DATE:	1965
TANK STATUS:	REGULATED TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	000300 GALLONS
TANK CONTENTS:	OIL
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:		INT. CATHODIC PROTECTION:	
INTERNALLY LINED:		EXT. CATHODIC PROTECTION:	
EXTERNALLY WRAPPED:		EXTERNALLY COATED:	X
EXTERNALLY PAINTED:		EXT. FIBERGLASS REINFORCED PLASTIC:	
EXTERNAL COAL TAR:		EXT. FIBERGLASS REINFORCED URITHANE:	
OTHER EXT. TANK PROTECTION:			

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:			
GALVANIZED STEEL:	X	BARE STEEL:	
CATHODICALLY PROTECTED:		DOUBLE WALL PIPING:	
EXT. DI-ELECTRIC PIPE COATING:			

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:	LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:	GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:	LINED EXCAVATION:
AUTOMATIC TANK GAUGING:	MANUAL TANK GAUGING:

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 9 **DIST/DIR:** 0.25 NW **MAP ID:** 5

NAME: DUDE S 66
ADDRESS: 409 EAST PLATT
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8607320
ID2:
STATUS:
PHONE: (000) 0000000

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: REICHLING OIL CORP
OWNER ADDRESS: 409 E PLATT STREET
MAQUOKETA IA 520600000
OWNER CONTACT NAME:
OWNER CONTACT PHONE: (000) 0000000

LEAK INFORMATION

LEAK NUMBER: 8LTA51
LEAK DISCOVERY DATE: 08/21/90
LEAK DISCOVERY TIME: UNK

DATE LEAK OCCURRED: 00/00/00
TIME LEAK OCCURRED:

DATE LEAK REPORTED TO DEP: 10/05/90
LEAK REPORTER NAME: CHUCK REICHLIUS
LEAK REPORTER COMPANY: REICHLING OIL CO
LEAK REPORTER ADDRESS: 409 E PLATT
MAQUOKETA IA 52060
LEAK REPORTER PHONE: (319) 652-2448

CAUSE OF LEAK: UNK

PRODUCT RELEASED
GAS: X
WASTE OIL:
FUEL OIL:
OTHER PETROLEUM:
NON-PETROL./CHEMICAL:
DIESEL:
KEROSENE:
HOIST OIL:
UNKNOWN:

LOCATION OF LEAK
SOIL:
SURFACE WATER:
GROUND WATER: X
WATER SUPPLY:

RESOURCES THREATENED
MUNICIPAL WELLS:
LIVESTOCK:
UNKNOWN:
PRIVATE WELLS:
NONE: X
OTHER:

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 9 **DIST/DIR:** 0.25 NW **MAP ID:** 5

NAME:	DUDE S 66	REV:	11/17/98
ADDRESS:	409 EAST PLATT	ID1:	8607320
	MAQUOKETA IA 52060	ID2:	
	JACKSON	STATUS:	
CONTACT:		PHONE:	(000) 0000000

FACILITY TANK INFORMATION

TANK NUMBER:	001
TANK STATUS:	REGULATED TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	004000 GALLONS
TANK CONTENTS:	GAS
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:		INT. CATHODIC PROTECTION:	
INTERNALLY LINED:		EXT. CATHODIC PROTECTION:	
EXTERNALLY WRAPPED:		EXTERNALLY COATED:	X
EXTERNALLY PAINTED:		EXT. FIBERGLASS REINFORCED PLASTIC:	
EXTERNAL COAL TAR:		EXT. FIBERGLASS REINFORCED URITHANE:	
OTHER EXT. TANK PROTECTION:			

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:			
GALVANIZED STEEL:	X	BARE STEEL:	
CATHODICALLY PROTECTED:		DOUBLE WALL PIPING:	
EXT. DI-ELECTRIC PIPE COATING:			

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:	LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:	GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:	LINED EXCAVATION:
AUTOMATIC TANK GAUGING:	MANUAL TANK GAUGING:

TANK NUMBER:	002
TANK STATUS:	REGULATED TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	004000 GALLONS
TANK CONTENTS:	GAS
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:		INT. CATHODIC PROTECTION:	
INTERNALLY LINED:		EXT. CATHODIC PROTECTION:	
EXTERNALLY WRAPPED:		EXTERNALLY COATED:	X
EXTERNALLY PAINTED:		EXT. FIBERGLASS REINFORCED PLASTIC:	

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 9 **DIST/DIR:** 0.25 NW **MAP ID:** 5

NAME:	DUDE S 66	REV:	11/17/98
ADDRESS:	409 EAST PLATT	ID1:	8607320
	MAQUOKETA IA 52060	ID2:	
	JACKSON	STATUS:	
CONTACT:		PHONE:	(000) 0000000

EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
BARE STEEL:
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

TANK NUMBER:	003
TANK STATUS:	REGULATED TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	004000 GALLONS
TANK CONTENTS:	GAS
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INT. CATHODIC PROTECTION:
INTERNALLY LINED:
EXT. CATHODIC PROTECTION:
EXTERNALLY WRAPPED:
EXTERNALLY COATED: X
EXTERNALLY PAINTED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
BARE STEEL:
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

- More Details Exist For This Site; Max Page Limit Reached -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 8 **DIST/DIR:** 0.30 NW **MAP ID:** 4

NAME: COASTAL MART #2438
ADDRESS: 302 E PLATT
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8602872
ID2:
STATUS:
PHONE: (000) 0000000

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: COASTAL MART INC #1086
OWNER ADDRESS: 9 GREENWAY PLAZA #2086
HOUSTON TX 770460000
OWNER CONTACT NAME:
OWNER CONTACT PHONE: (000) 0000000

LEAK INFORMATION

LEAK NUMBER: 7LTA66
LEAK DISCOVERY DATE: 00/00/00
LEAK DISCOVERY TIME:

DATE LEAK OCCURRED: 00/00/00
TIME LEAK OCCURRED:

DATE LEAK REPORTED TO DEP: 08/01/88
LEAK REPORTER NAME:
LEAK REPORTER COMPANY:
LEAK REPORTER ADDRESS:
00000
LEAK REPORTER PHONE: (000) 000-0000

CAUSE OF LEAK:

PRODUCT RELEASED
GAS: X
WASTE OIL:
FUEL OIL:
OTHER PETROLEUM:
NON-PETROL./CHEMICAL:

DIESEL:
KEROSENE:
HOIST OIL:
UNKNOWN:

LOCATION OF LEAK
SOIL:
SURFACE WATER:

GROUND WATER:
WATER SUPPLY:

RESOURCES THREATENED
MUNICIPAL WELLS:
LIVESTOCK:
UNKNOWN:

PRIVATE WELLS:
NONE:
OTHER:

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 8 **DIST/DIR:** 0.30 NW **MAP ID:** 4

NAME:	COASTAL MART #2438	**REV:**	11/17/98
ADDRESS:	302 E PLATT	**ID1:**	8602872
	MAQUOKETA IA 52060	**ID2:**	
	JACKSON	**STATUS:**	
CONTACT:		**PHONE:**	(000) 0000000

FACILITY TANK INFORMATION

TANK NUMBER:	001
TANK STATUS:	REGULATED TANK - ACTIVE
TANK IN USE?:	IN USE
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	012000 GALLONS
TANK CONTENTS:	GAS
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:		**INT. CATHODIC PROTECTION:**	
INTERNALLY LINED:	X	**EXT. CATHODIC PROTECTION:**	
EXTERNALLY WRAPPED:		**EXTERNALLY COATED:**	
EXTERNALLY PAINTED:	X	**EXT. FIBERGLASS REINFORCED PLASTIC:**	
EXTERNAL COAL TAR:		**EXT. FIBERGLASS REINFORCED URITHANE:**	
OTHER EXT. TANK PROTECTION:			

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:			
GALVANIZED STEEL:	X	**BARE STEEL:**	
CATHODICALLY PROTECTED:		**DOUBLE WALL PIPING:**	
EXT. DI-ELECTRIC PIPE COATING:			

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:		**LINE TIGHTNESS TESTED:**	X
VAPOR MONITORING WELL:		**GROUNDWATER MONITORING WELL:**	
MONITORING SPACE ON DBL. WALL:		**LINED EXCAVATION:**	
AUTOMATIC TANK GAUGING:		**MANUAL TANK GAUGING:**	

TANK NUMBER:	002
TANK STATUS:	REGULATED TANK - ACTIVE
TANK IN USE?:	IN USE
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	006000 GALLONS
TANK CONTENTS:	GAS
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:		**INT. CATHODIC PROTECTION:**	
INTERNALLY LINED:	X	**EXT. CATHODIC PROTECTION:**	
EXTERNALLY WRAPPED:		**EXTERNALLY COATED:**	
EXTERNALLY PAINTED:	X	**EXT. FIBERGLASS REINFORCED PLASTIC:**	

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 8 **DIST/DIR:** 0.30 NW **MAP ID:** 4

NAME: COASTAL MART #2438
ADDRESS: 302 E PLATT
MAQUOKETA IA 52060
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8602872
ID2:
STATUS:
PHONE: (000) 0000000

EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
BARE STEEL:
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED: X
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

TANK NUMBER: 003
TANK STATUS: REGULATED TANK - ACTIVE
TANK IN USE?: IN USE
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 002000 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INT. CATHODIC PROTECTION:
INTERNALLY LINED: X
EXT. CATHODIC PROTECTION:
EXTERNALLY WRAPPED:
EXTERNALLY COATED:
EXTERNALLY PAINTED: X
EXT. FIBERGLASS REINFORCED PLASTIC:
EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
BARE STEEL:
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED: X
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

- More Details Exist For This Site; Max Page Limit Reached -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 10 **DIST/DIR:** 0.30 NW **MAP ID:** 6

NAME: EAST PLATT NORTH STARR
ADDRESS: 303 EAST PLATT
MAQUOKETA IA 52060
JACKSON
CONTACT: TERRY V BULLER

REV: 11/17/98
ID1: 8603860
ID2:
STATUS:
PHONE: (309) 7884549

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: MIDWAY OIL COMPANY
OWNER ADDRESS: 4330 11TH STREET BOX 4540
ROCK ISLAND IL 612044540
OWNER CONTACT NAME: TERRY V BULLER
OWNER CONTACT PHONE: (309) 7884549

LEAK INFORMATION

LEAK NUMBER: 7LTH13
LEAK DISCOVERY DATE: 11/09/89
LEAK DISCOVERY TIME: AM

DATE LEAK OCCURRED: 00/00/00
TIME LEAK OCCURRED: UNK

DATE LEAK REPORTED TO DEP: 11/13/89
LEAK REPORTER NAME: TERRY BULLER
LEAK REPORTER COMPANY:
LEAK REPORTER ADDRESS:
00000
LEAK REPORTER PHONE: (000) 000-0000

CAUSE OF LEAK:

PRODUCT RELEASED

GAS:	X	**DIESEL:**	
WASTE OIL:		**KEROSENE:**	
FUEL OIL:		**HOIST OIL:**	
OTHER PETROLEUM:		**UNKNOWN:**	
NON-PETROL./CHEMICAL:			

LOCATION OF LEAK

SOIL:	X	**GROUND WATER:**	
SURFACE WATER:		**WATER SUPPLY:**	

RESOURCES THREATENED

MUNICIPAL WELLS:		**PRIVATE WELLS:**	
LIVESTOCK:		**NONE:**	
UNKNOWN:	X	**OTHER:**	

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 10 **DIST/DIR:** 0.30 NW **MAP ID:** 6

NAME:	EAST PLATT NORTH STARR	**REV:**	11/17/98
ADDRESS:	303 EAST PLATT	**ID1:**	8603860
	MAQUOKETA IA 52060	**ID2:**	
	JACKSON	**STATUS:**	
CONTACT:	TERRY V BULLER	**PHONE:**	(309) 7884549

FACILITY TANK INFORMATION

TANK NUMBER:	001
TANK STATUS:	REGULATED TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	004000 GALLONS
TANK CONTENTS:	GAS
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:	**INT. CATHODIC PROTECTION:**
INTERNALLY LINED:	**EXT. CATHODIC PROTECTION:**
EXTERNALLY WRAPPED:	**EXTERNALLY COATED:**
EXTERNALLY PAINTED:	**EXT. FIBERGLASS REINFORCED PLASTIC:**
EXTERNAL COAL TAR:	**EXT. FIBERGLASS REINFORCED URITHANE:**
OTHER EXT. TANK PROTECTION:	

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:			
GALVANIZED STEEL:	X	**BARE STEEL:**	
CATHODICALLY PROTECTED:		**DOUBLE WALL PIPING:**	
EXT. DI-ELECTRIC PIPE COATING:			

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:	**LINE TIGHTNESS TESTED:**
VAPOR MONITORING WELL:	**GROUNDWATER MONITORING WELL:**
MONITORING SPACE ON DBL. WALL:	**LINED EXCAVATION:**
AUTOMATIC TANK GAUGING:	**MANUAL TANK GAUGING:**

TANK NUMBER:	002
TANK STATUS:	REGULATED TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	006000 GALLONS
TANK CONTENTS:	GAS
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:	**INT. CATHODIC PROTECTION:**
INTERNALLY LINED:	**EXT. CATHODIC PROTECTION:**
EXTERNALLY WRAPPED:	**EXTERNALLY COATED:**
EXTERNALLY PAINTED:	**EXT. FIBERGLASS REINFORCED PLASTIC:**

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 10 **DIST/DIR:** 0.30 NW **MAP ID:** 6

NAME: EAST PLATT NORTH STARR
ADDRESS: 303 EAST PLATT
MAQUOKETA IA 52060
JACKSON
CONTACT: TERRY V BULLER

REV: 11/17/98
ID1: 8603860
ID2:
STATUS:
PHONE: (309) 7884549

EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
BARE STEEL:
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

TANK NUMBER: 003
TANK STATUS: REGULATED TANK - REMOVED OR FILLED
TANK IN USE?: PERMANENTLY CLOSED
DATE TANK LAST USED: 00/0000
TANK CAPACITY: 000550 GALLONS
TANK CONTENTS: GAS
TANK MATERIAL OF CONSTRUCTION: STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INT. CATHODIC PROTECTION:
INTERNALLY LINED:
EXT. CATHODIC PROTECTION:
EXTERNALLY WRAPPED:
EXTERNALLY COATED:
EXTERNALLY PAINTED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL: X
BARE STEEL:
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

- More Details Exist For This Site; Max Page Limit Reached -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 13 **DIST/DIR:** 0.38 NW **MAP ID:** 8

NAME: U S WEST
ADDRESS: 121 N OLIVE
MAQUOKETA IA
JACKSON
CONTACT:

REV: 11/17/98
ID1: 8607726
ID2:
STATUS:
PHONE: (000) 0000000

OWNER INFORMATION

TYPE OF OWNER: PRIVATE
OWNER NAME: U S WEST
OWNER ADDRESS: 925 HIGH, 8 NORTH OF 10
DES MOINES IA 503090000
OWNER CONTACT NAME:
OWNER CONTACT PHONE: (000) 0000000

LEAK INFORMATION

FACILITY TANK INFORMATION

LEAK NUMBER: 9LTB82
LEAK DISCOVERY DATE: 06/13/95
LEAK DISCOVERY TIME: PM

DATE LEAK OCCURRED: 00/00/00
TIME LEAK OCCURRED:

DATE LEAK REPORTED TO DEP: 06/14/95
LEAK REPORTER NAME: RON RUPE
LEAK REPORTER COMPANY: US WEST
LEAK REPORTER ADDRESS: 925 HIGH STREET
DES MOINES IA 50309
LEAK REPORTER PHONE: (515) 282-7243

CAUSE OF LEAK: UNK

PRODUCT RELEASED
GAS:
WASTE OIL:
FUEL OIL:
OTHER PETROLEUM:
NON-PETROL./CHEMICAL:

DIESEL: X
KEROSENE:
HOIST OIL:
UNKNOWN:

LOCATION OF LEAK
SOIL: X
SURFACE WATER:

GROUND WATER:
WATER SUPPLY:

RESOURCES THREATENED
MUNICIPAL WELLS:
LIVESTOCK:

PRIVATE WELLS:
NONE:

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 13 **DIST/DIR:** 0.38 NW **MAP ID:** 8

NAME:	U S WEST	**REV:**	11/17/98
ADDRESS:	121 N OLIVE	**ID1:**	8607726
	MAQUOKETA IA	**ID2:**	
	JACKSON	**STATUS:**	
CONTACT:		**PHONE:**	(000) 0000000

UNKNOWN: X **OTHER:**

TANK NUMBER:	001
TANK STATUS:	NON-REGULATED HEATING OIL TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	00/0000
TANK CAPACITY:	000500 GALLONS
TANK CONTENTS:	PETROLEUM OTHER
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:		**INT. CATHODIC PROTECTION:**	
INTERNALLY LINED:		**EXT. CATHODIC PROTECTION:**	
EXTERNALLY WRAPPED:		**EXTERNALLY COATED:**	X
EXTERNALLY PAINTED:		**EXT. FIBERGLASS REINFORCED PLASTIC:**	
EXTERNAL COAL TAR:		**EXT. FIBERGLASS REINFORCED URITHANE:**	
OTHER EXT. TANK PROTECTION:			

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:			
GALVANIZED STEEL:	X	**BARE STEEL:**	
CATHODICALLY PROTECTED:		**DOUBLE WALL PIPING:**	
EXT. DI-ELECTRIC PIPE COATING:			

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:	**LINE TIGHTNESS TESTED:**
VAPOR MONITORING WELL:	**GROUNDWATER MONITORING WELL:**
MONITORING SPACE ON DBL. WALL:	**LINED EXCAVATION:**
AUTOMATIC TANK GAUGING:	**MANUAL TANK GAUGING:**

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 12 **DIST/DIR:** 0.43 SE **MAP ID:** 9

NAME:	MAQUOKETA WEB PRINTING	**REV:**	11/17/98
ADDRESS:	1209 E MAPLE ST	**ID1:**	8913804
	MAQUOKETA IA 52060	**ID2:**	
	JACKSON	**STATUS:**	
CONTACT:	JOHN MELVOLD	**PHONE:**	(319) 6524971

OWNER INFORMATION

TYPE OF OWNER:	PRIVATE
OWNER NAME:	MAQUOKETA NEWSPAPERS INC
OWNER ADDRESS:	108 W QUARRY ST
	MAQUOKETA IA 520600000
OWNER CONTACT NAME:	JOHN MELVOLD
OWNER CONTACT PHONE:	(319) 6524971

LEAK INFORMATION

LEAK NUMBER:	7LTI02
LEAK DISCOVERY DATE:	00/00/00
LEAK DISCOVERY TIME:	
DATE LEAK OCCURRED:	00/00/00
TIME LEAK OCCURRED:	
DATE LEAK REPORTED TO DEP:	00/00/00
LEAK REPORTER NAME:	
LEAK REPORTER COMPANY:	
LEAK REPORTER ADDRESS:	
	00000
LEAK REPORTER PHONE:	(000) 000-0000

CAUSE OF LEAK:

PRODUCT RELEASED

GAS:		**DIESEL:**	X
WASTE OIL:		**KEROSENE:**	
FUEL OIL:		**HOIST OIL:**	
OTHER PETROLEUM:		**UNKNOWN:**	
NON-PETROL./CHEMICAL:			

LOCATION OF LEAK

SOIL:	X	**GROUND WATER:**	
SURFACE WATER:		**WATER SUPPLY:**	

RESOURCES THREATENED

MUNICIPAL WELLS:		**PRIVATE WELLS:**	
LIVESTOCK:		**NONE:**	
UNKNOWN:	X	**OTHER:**	

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 12 **DIST/DIR:** 0.43 SE **MAP ID:** 9

NAME:	MAQUOKETA WEB PRINTING	**REV:**	11/17/98
ADDRESS:	1209 E MAPLE ST	**ID1:**	8913804
	MAQUOKETA IA 52060	**ID2:**	
	JACKSON	**STATUS:**	
CONTACT:	JOHN MELVOLD	**PHONE:**	(319) 6524971

FACILITY TANK INFORMATION

TANK NUMBER:	001
TANK STATUS:	REGULATED TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	08/1985
TANK CAPACITY:	010000 GALLONS
TANK CONTENTS:	DIESEL
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:	**INT. CATHODIC PROTECTION:**
INTERNALLY LINED:	**EXT. CATHODIC PROTECTION:**
EXTERNALLY WRAPPED:	**EXTERNALLY COATED:**
EXTERNALLY PAINTED:	**EXT. FIBERGLASS REINFORCED PLASTIC:**
EXTERNAL COAL TAR:	**EXT. FIBERGLASS REINFORCED URITHANE:**
OTHER EXT. TANK PROTECTION:	

PIPE CONTSTRUCTION AND PROTECTION INFORMATION

FIBERGLASS REINFORCED PLASTIC:		
GALVANIZED STEEL:	**BARE STEEL:**	X
CATHODICALLY PROTECTED:	**DOUBLE WALL PIPING:**	
EXT. DI-ELECTRIC PIPE COATING:		

RELEASE DETECTION

AUTO. LINE LEAK DETECTOR:	**LINE TIGHTNESS TESTED:**
VAPOR MONITORING WELL:	**GROUNDWATER MONITORING WELL:**
MONITORING SPACE ON DBL. WALL:	**LINED EXCAVATION:**
AUTOMATIC TANK GAUGING:	**MANUAL TANK GAUGING:**

TANK NUMBER:	002
TANK STATUS:	REGULATED TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	08/1985
TANK CAPACITY:	007000 GALLONS
TANK CONTENTS:	DIESEL
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION

DOUBLE WALL TANK:	**INT. CATHODIC PROTECTION:**
INTERNALLY LINED:	**EXT. CATHODIC PROTECTION:**
EXTERNALLY WRAPPED:	**EXTERNALLY COATED:**
EXTERNALLY PAINTED:	**EXT. FIBERGLASS REINFORCED PLASTIC:**

- Continued on next page -

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

LEAKING UNDERGROUND STORAGE TANKS

SEARCH ID: 12 **DIST/DIR:** 0.43 SE **MAP ID:** 9

NAME:	MAQUOKETA WEB PRINTING	**REV:**	11/17/98
ADDRESS:	1209 E MAPLE ST	**ID1:**	8913804
	MAQUOKETA IA 52060	**ID2:**	
	JACKSON	**STATUS:**	
CONTACT:	JOHN MELVOLD	**PHONE:**	(319) 6524971

EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL:
BARE STEEL: X
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

TANK NUMBER:	003
TANK STATUS:	REGULATED TANK - REMOVED OR FILLED
TANK IN USE?:	PERMANENTLY CLOSED
DATE TANK LAST USED:	08/1985
TANK CAPACITY:	007000 GALLONS
TANK CONTENTS:	DIESEL
TANK MATERIAL OF CONSTRUCTION:	STEEL

TANK PROTECTION INFORMATION
DOUBLE WALL TANK:
INT. CATHODIC PROTECTION:
INTERNALLY LINED:
EXT. CATHODIC PROTECTION:
EXTERNALLY WRAPPED:
EXTERNALLY COATED:
EXTERNALLY PAINTED:
EXT. FIBERGLASS REINFORCED PLASTIC:
EXTERNAL COAL TAR:
EXT. FIBERGLASS REINFORCED URITHANE:
OTHER EXT. TANK PROTECTION:

PIPE CONTSTRUCTION AND PROTECTION INFORMATION
FIBERGLASS REINFORCED PLASTIC:
GALVANIZED STEEL:
BARE STEEL: X
CATHODICALLY PROTECTED:
DOUBLE WALL PIPING:
EXT. DI-ELECTRIC PIPE COATING:

RELEASE DETECTION
AUTO. LINE LEAK DETECTOR:
LINE TIGHTNESS TESTED:
VAPOR MONITORING WELL:
GROUNDWATER MONITORING WELL:
MONITORING SPACE ON DBL. WALL:
LINED EXCAVATION:
AUTOMATIC TANK GAUGING:
MANUAL TANK GAUGING:

- More Details Exist For This Site; Max Page Limit Reached -

Environmental FirstSearch
Federal Databases and Sources

1. **NPL:** ***National Priority List.*** The EPA's list of confirmed or proposed Superfund sites.

   Updated quarterly.

2. **CERCLIS:** ***Comprehensive Environmental Response Compensation and Liability Information System.*** The EPA's database of current and potential Superfund sites currently or previously under investigation.

   Updated quarterly.

3. **RCRIS:** ***Resource Conservation and Recovery Information System.*** The EPA's database of registered hazardous waste generators and treatment, storage and disposal facilities. Included are RAATS (RCRA Administrative Action Tracking System) and CMEL (Compliance Monitoring & Enforcement List).

   Updated quarterly.

4. **ERNS:** ***Emergency Response Notification System.*** The EPA's database of EPA emergency response actions.

   Updated quarterly.

5. **NPDES:** ***National Pollution Discharge Elimination System.*** The EPA's database of all permitted facilities receiving and discharging effluents to and from the environment.

   Updated semi-annually.

6. **FINDS:** ***The Facility Index System.*** The EPA's Index of identification numbers associated with a property or facility which the EPA has investigated or has been made aware of in conjunction with various regulatory programs. Each record indicates the EPA office that may have files on the site or facility.

   Updated quarterly.

Environmental FirstSearch
Iowa Databases and Sources

1. **LANDFILLS:** The Iowa Department of Natural Resources listing of permitted solid waste management facilities as maintained by the Solid Waste Division of the Land Quality Bureau.

Contact: Irene Ray, (515) 281-4968

Updated Quarterly

2. **LUST:** Leaking Underground Storage Tanks. The Iowa Department of Natural Resources listing of leaking underground storage tanks as maintained by the Bureau of Land Quality Leaking Underground Storage Tank Program.

Contact: Tina Williams, (515) 281-8987

Updated Quarterly

3. **STATE SITES:** The Iowa Department of Natural Resources listing of Uncontrolled Sites & Emergency Response (USER) as maintained by the Hazardous Waste Division.

Contact: Alesia Whitney-Knight, (515) 242-5084

Updated Yearly

4. **UST:** Underground Storage Tanks. The Iowa Department of Natural Resources listing of all underground storage tanks as maintained by the Bureau of Land Quality Underground Storage Tank Program. This listing does not contain above ground tanks.

Contact: Tina Williams, (515) 281-8987

Updated Quarterly

Environmental FirstSearch
Street Name Report for Streets within 1 Mile(s) of Target Property

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

Street Name	Dist/Dir	Street Name	Dist/Dir
ALLEN ST	0.33 SW	NORTH FIFTH ST	0.62 NW
ANDERSON ST	0.30 NE	NORTH JONES ST	0.93 NW
AUSTIN	0.55 NW	NORTH MAIN ST	0.41 NW
BUSINESS RTE 61	0.65 NW	NORTH MATTESON ST	0.24 NW
BUTTERNUT ST	0.55 NE	NORTH NIAGARA ST	0.51 NW
CARDINAL DR	0.60 NE	NORTH OLIVE ST	0.36 NW
CELIA ST	0.98 SW	NORTH OTTO ST	0.27 NW
CENTER ST	0.88 SW	NORTH PROSPECT ST	0.74 NW
CIRCLE DR	0.86 SW	NORTH SECOND ST	0.47 NW
COLGATE AVE	0.81 NE	NORTH ST	0.64 NW
CORNELL AVE	0.77 NE	NORTH VERMONT ST	0.77 NW
CYNTHIA DR	0.56 NE	NORTH WALNUT ST	0.23 NE
DUNHAM CT	0.67 NW	PERSHING ROAD	0.71 N-
E APPLE ST	0.42 NE	S CLARK ST	0.04 NW
E GROVE ST	0.53 N-	S ELIZA ST	0.21 NW
E JEFFERSON ST	0.57 SW	S FIFTH ST	0.59 -W
E JUDSON ST	0.19 SW	S FOURTH ST	0.53 SW
E LOCUST ST	0.11 SW	S MAIN ST	0.35 NW
E MAPLE ST	0.01 SW	S MATTESON ST	0.09 NW
E MONROE ST	0.67 SW	S NIAGARA ST	0.47 NW
E PLATT ST	0.21 N-	S OLIVE ST	0.29 NW
E PLEASANT ST	0.13 NW	S OTTO ST	0.16 -W
E QUARRY ST	0.33 N-	S PROSPECT ST	0.66 SW
E SUMMIT ST	0.30 SE	S SECOND ST	0.42 NW
EAST APPLE ST	0.42 NE	S VERMONT ST	0.75 NW
EAST GROVE ST	0.53 N-	SCHOOL ST	0.59 SW
EAST JEFFERSON ST	0.57 SW	SHORT ST	0.71 NW
EAST JUDSON ST	0.19 SW	SOUTH CLARK ST	0.04 NW
EAST LOCUST ST	0.11 SW	SOUTH ELIZA ST	0.21 NW
EAST MAPLE ST	0.01 SW	SOUTH FIFTH ST	0.59 -W
EAST MONROE ST	0.67 SW	SOUTH FOURTH ST	0.53 SW
EAST PLATT ST	0.21 N-	SOUTH MAIN ST	0.35 NW
EAST PLEASANT ST	0.13 NW	SOUTH MATTESON ST	0.09 NW
EAST QUARRY ST	0.33 N-	SOUTH NIAGARA ST	0.47 NW
EAST SUMMIT ST	0.30 SE	SOUTH OLIVE ST	0.29 NW
EDDY PL	0.83 SW	SOUTH OTTO ST	0.16 -W
EDDY ST	0.75 SW	SOUTH PROSPECT ST	0.66 SW
EDNA ST	0.26 NE	SOUTH SECOND ST	0.42 NW
EMMA CT	0.66 NW	SOUTH VERMONT ST	0.75 NW
ERIE ST	0.76 SW	STATE HWY 62	0.61 NE
GERMAN ST	0.92 NW	STATE HWY 64	0.61 NE
GRANT ST	0.94 SW	SUSAN DR	0.58 NE
HARVARD AVE	0.67 NE	THOMAS AVE	0.88 NW
IOWA UNIVERSITY AVE	0.67 NE	VINE ST	0.95 SW
JACOBSEN DR	0.61 SE	W APPLE ST	0.55 NW
JONES ST	0.87 SW	W GROVE ST	0.63 NW
KATHEY DR	0.52 NE	W JAMES ST	0.45 NW
LISA DR	0.68 NE	W JEFFERSON ST	0.67 SW

Environmental FirstSearch
Street Name Report for Streets within 1 Mile(s) of Target Property

TARGET SITE: 605 EAST MAPLE ST
MAQUOKETA IA 52060

JOB: MISSMAN
CLINTON ENGINES

Street Name	Dist/Dir	Street Name	Dist/Dir
MELROSE ST	0.96 SW	W JUDSON ST	0.46 SW
MILTON ST	0.97 SW	W LOCUST ST	0.36 SW
N ARCADE ST	0.84 NW	W MAPLE ST	0.35 NW
N CLARK ST	0.22 NW	W MONROE ST	0.71 SW
N DEARBORN ST	0.17 NE	W PLATT ST	0.41 NW
N DECKER ST	0.56 NW	W PLEASANT ST	0.37 NW
N ELIZA ST	0.30 NW	W QUARRY ST	0.48 NW
N FIFTH ST	0.62 NW	W SUMMIT ST	0.46 SW
N JONES ST	0.93 NW	WALNUT ST	0.71 NE
N MAIN ST	0.41 NW	WASHINGTON ST	0.64 SW
N MATTESON ST	0.24 NW	WEST APPLE ST	0.55 NW
N NIAGARA ST	0.51 NW	WEST GROVE ST	0.63 NW
N OLIVE ST	0.36 NW	WEST JAMES ST	0.45 NW
N OTTO ST	0.27 NW	WEST JEFFERSON ST	0.67 SW
N PROSPECT ST	0.74 NW	WEST JUDSON ST	0.46 SW
N SECOND ST	0.47 NW	WEST LOCUST ST	0.36 SW
N VERMONT ST	0.77 NW	WEST MAPLE ST	0.35 NW
N WALNUT ST	0.23 NE	WEST MONROE ST	0.71 SW
NILES ST	0.94 SW	WEST PLATT ST	0.41 NW
NORTH ARCADE ST	0.84 NW	WEST PLEASANT ST	0.37 NW
NORTH CLARK ST	0.22 NW	WEST QUARRY ST	0.48 NW
NORTH DEARBORN ST	0.17 NE	WEST SUMMIT ST	0.46 SW
NORTH DECKER ST	0.56 NW	YALE AVE	0.73 NE
NORTH ELIZA ST	0.30 NW		

APPENDIX D

Laboratory Reports

ED_006017_00000185-00089

TestAmerica INCORPORATED

RECEIVED OCT 13 1999

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530267

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-1 Clinton Engines

Date Taken: 09/23/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Extraction Prep	complete			jlc	09/30/1999	IOWA-OA2	
EXTRACTABLE HYDROCARBONS-WATER							
Total Extractable Hydrocarbons	<380	ug/L		sjg	10/01/1999	IA-OA2/S-8015	380
Diesel	<380	ug/L		sjg	10/01/1999	IA-OA2/S-8015	380
Gasoline	<380	ug/L		sjg	10/01/1999	IA-OA2/S-8015	380
Motor Oil	<380	ug/L		sjg	10/01/1999	IA-OA2/S-8015	380
VOLATILES - BTEX (WATER)							
Benzene	<2.0	ug/L		asz	09/29/1999	IA-OA1	2.0
Toluene	<2.0	ug/L		asz	09/29/1999	IA-OA1	2.0
Ethylbenzene	<2.0	ug/L		asz	09/29/1999	IA-OA1	2.0
Xylenes, Total	<3.0	ug/L		asz	09/29/1999	IA-OA1	3.0

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530268

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-9 Clinton Engines

Date Taken: 09/24/1999 Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Extraction Prep	complete			ajp	10/01/1999	IOWA-OA2	
EXTRACTABLE HYDROCARBONS-WATER							
Total Extractable Hydrocarbons	<380	ug/L		sjg	10/04/1999	IA-OA2/S-8015	380
Diesel	<380	ug/L		sjg	10/04/1999	IA-OA2/S-8015	380
Gasoline	<380	ug/L		sjg	10/04/1999	IA-OA2/S-8015	380
Motor Oil	<380	ug/L		sjg	10/04/1999	IA-OA2/S-8015	380
VOLATILES - BTEX (WATER)							
Benzene	<4.0	ug/L		asz	09/29/1999	IA-OA1	2.0
Toluene	5.8	ug/L		asz	09/29/1999	IA-OA1	2.0
Ethylbenzene	<4.0	ug/L		asz	09/29/1999	IA-OA1	2.0
Xylenes, Total	<6.0	ug/L		asz	09/29/1999	IA-OA1	3.0

R.L. Bindert
Operations Manager

ED_006017_00000185-00091

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530269

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-2 Clinton Engines

Date Taken: 09/23/1999 Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Cyanide, Total	<0.0050	mg/L		cjh	09/29/1999	EPA 335.4	0.0050
ICP Metals - E 200.7	Complete	mg/L		llw	09/28/1999		
Antimony, ICP	<0.10	mg/L		llw	09/28/1999	EPA 200.7	0.10
Arsenic, ICP	<0.080	mg/L		llw	09/28/1999	EPA 200.7	0.080
Beryllium, ICP	<0.010	mg/L		llw	09/28/1999	EPA 200.7	0.010
Cadmium, ICP	<0.020	mg/L		llw	09/28/1999	EPA 200.7	0.020
Chromium, ICP	<0.020	mg/L	MSO	llw	09/28/1999	EPA 200.7	0.020
Copper, ICP	<0.020	mg/L		llw	09/28/1999	EPA 200.7	0.020
Lead, ICP	<0.10	mg/L		llw	09/28/1999	EPA 200.7	0.10
Nickel, ICP	<0.050	mg/L		llw	09/28/1999	EPA 200.7	0.050
Selenium, ICP	<0.15	mg/L		llw	09/28/1999	EPA 200.7	0.15
Silver, ICP	<0.020	mg/L		llw	09/28/1999	EPA 200.7	0.020
Thallium, ICP	<1.0	mg/L		llw	09/28/1999	EPA 200.7	1.0
Zinc, ICP	0.058	mg/L		llw	09/28/1999	EPA 200.7	0.020
Mercury,Cold Vapor	<0.00020	mg/L		lmc	09/29/1999	EPA 245.1	0.0002
Prep, PEST/PCB'S Aqueous	complete			sak	09/28/1999	SW 3510	
PESTICIDES/PCB'S - Aqueous							
PCB-1016/1242	<1.0	ug/L		sjg	09/30/1999	SW 8082	1.0
PCB-1221	<1.0	ug/L		sjg	09/30/1999	SW 8082	1.0
PCB-1232	<1.0	ug/L		sjg	09/30/1999	SW 8082	1.0
PCB-1248	<1.0	ug/L		sjg	09/30/1999	SW 8082	1.0
PCB-1254	<1.0	ug/L		sjg	09/30/1999	SW 8082	1.0

MSO - MS and/or MSD are out of control for this analyte

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530269

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-2 Clinton Engines

Date Taken: 09/23/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
PCB-1260	<1.0	ug/L		sjg	09/30/1999	SW 8082	1.0
PCB-1268	<1.0	ug/L		sjg	09/30/1999	SW 8082	1.0

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530270

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-6 Clinton Engines

Date Taken: 09/24/1999 Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
VOLATILE COMPOUNDS - 8260							
Acetone	<10,000	ug/L		dmd	10/06/1999	SW 8260B	10,000
Benzene	<200	ug/L		dmd	10/06/1999	SW 8260B	200
Bromobenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Bromochloromethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Bromodichloromethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Bromoform	<1,000	ug/L		dmd	10/06/1999	SW 8260B	1,000
Bromomethane	<2,000	ug/L		dmd	10/06/1999	SW 8260B	2,000
2-Butanone (MEK)	<5,000	ug/L		dmd	10/06/1999	SW 8260B	5,000
n-Butylbenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
sec-Butylbenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
tert-Butylbenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Carbon Tetrachloride	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Chlorobenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Chlorodibromomethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Chloroethane	<2,000	ug/L		dmd	10/06/1999	SW 8260B	2,000
Chloroform	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Chloromethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
2-Chlorotoluene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
4-Chlorotoluene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,2-Dibromo-3-Chloropropane	<5,000	ug/L		dmd	10/06/1999	SW 8260B	5,000
1,2-Dibromoethane (EDB)	<5,000	ug/L		dmd	10/06/1999	SW 8260B	5,000

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530270

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-6 Clinton Engines

Date Taken: 09/24/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Dibromomethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,2-Dichlorobenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,3-Dichlorobenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,4-Dichlorobenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Dichlorodifluoromethane	<1,500	ug/L		dmd	10/06/1999	SW 8260B	1,500
1,1-Dichloroethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,2-Dichloroethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,1-Dichloroethene	<1,000	ug/L		dmd	10/06/1999	SW 8260B	1,000
cis-1,2-Dichloroethene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
trans-1,2-Dichloroethene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,2-Dichloropropane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,3-Dichloropropane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
2,2-Dichloropropane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,1-Dichloropropene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
cis-1,3-Dichloropropene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
trans-1,3-Dichloropropene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Ethylbenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Hexachlorobutadiene	<2,500	ug/L		dmd	10/06/1999	SW 8260B	2,500
Isopropylbenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
p-Isopropyltoluene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Methylene Chloride	<5,000	ug/L		dmd	10/06/1999	SW 8260B	5,000
MTBE	<500	ug/L		dmd	10/06/1999	SW 8260B	500

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530270

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-6 Clinton Engines

Date Taken: 09/24/1999 Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Naphthalene	<2,500	ug/L		dmd	10/06/1999	SW 8260B	2,500
n-Propylbenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Styrene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,1,1,2-Tetrachloroethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,1,2,2-Tetrachloroethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Tetrachloroethene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Toluene	673,000	ug/L		dmd	10/08/1999	SW 8260B	1,000
1,2,3-Trichlorobenzene	<2,500	ug/L		dmd	10/06/1999	SW 8260B	2,500
1,2,4-Trichlorobenzene	<2,500	ug/L		dmd	10/06/1999	SW 8260B	2,500
1,1,1-Trichloroethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,1,2-Trichloroethane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Trichloroethylene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Trichlorofluoromethane	<2,000	ug/L		dmd	10/06/1999	SW 8260B	2,000
1,2,3-Trichloropropane	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,2,4-Trimethylbenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
1,3,5-Trimethylbenzene	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Vinyl Chloride	<500	ug/L		dmd	10/06/1999	SW 8260B	500
Xylenes, Total	<1,500	ug/L		dmd	10/06/1999	SW 8260B	1,500

R.L. Bindert
Operations Manager

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530271

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-3 Clinton Engines

Date Taken: 09/23/1999 Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
VOLATILE COMPOUNDS - 8260							
Acetone	<200	ug/L		dmd	10/04/1999	SW 8260B	200
Benzene	56.0	ug/L		dmd	10/04/1999	SW 8260B	5
Bromobenzene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Bromochloromethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Bromodichloromethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Bromoform	<20	ug/L		dmd	10/04/1999	SW 8260B	20
Bromomethane	<40	ug/L		dmd	10/04/1999	SW 8260B	40
2-Butanone (MEK)	<100	ug/L		dmd	10/04/1999	SW 8260B	100
n-Butylbenzene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
sec-Butylbenzene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
tert-Butylbenzene	10.2	ug/L		dmd	10/04/1999	SW 8260B	10
Carbon Tetrachloride	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Chlorobenzene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Chlorodibromomethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Chloroethane	<40	ug/L		dmd	10/04/1999	SW 8260B	40
Chloroform	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Chloromethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
2-Chlorotoluene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
4-Chlorotoluene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,2-Dibromo-3-Chloropropane	<100	ug/L		dmd	10/04/1999	SW 8260B	100
1,2-Dibromoethane (EDB)	<100	ug/L		dmd	10/04/1999	SW 8260B	100

R.L. Bindert
Operations Manager

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530271

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-3 Clinton Engines

Date Taken: 09/23/1999 Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Dibromomethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,2-Dichlorobenzene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,3-Dichlorobenzene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,4-Dichlorobenzene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Dichlorodifluoromethane	<30	ug/L		dmd	10/04/1999	SW 8260B	30
1,1-Dichloroethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,2-Dichloroethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,1-Dichloroethene	14.7	ug/L		dmd	10/04/1999	SW 8260B	20
cis-1,2-Dichloroethene	1,940	ug/L		dmd	10/04/1999	SW 8260B	10
trans-1,2-Dichloroethene	14.5	ug/L		dmd	10/04/1999	SW 8260B	10
1,2-Dichloropropane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,3-Dichloropropane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
2,2-Dichloropropane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,1-Dichloropropene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
cis-1,3-Dichloropropene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
trans-1,3-Dichloropropene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Ethylbenzene	246	ug/L		dmd	10/04/1999	SW 8260B	10
Hexachlorobutadiene	<50	ug/L		dmd	10/04/1999	SW 8260B	50
Isopropylbenzene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
p-Isopropyltoluene	17.4	ug/L		dmd	10/04/1999	SW 8260B	10
Methylene Chloride	<100	ug/L		dmd	10/04/1999	SW 8260B	100
MTBE	<10	ug/L		dmd	10/04/1999	SW 8260B	10

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530271

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-3 Clinton Engines

Date Taken: 09/23/1999 Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Naphthalene	58.9	ug/L		dmd	10/04/1999	SW 8260B	50
n-Propylbenzene	13.0	ug/L		dmd	10/04/1999	SW 8260B	10
Styrene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,1,1,2-Tetrachloroethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,1,2,2-Tetrachloroethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Tetrachloroethene	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Toluene	72.5	ug/L		dmd	10/04/1999	SW 8260B	10
1,2,3-Trichlorobenzene	<50	ug/L		dmd	10/04/1999	SW 8260B	50
1,2,4-Trichlorobenzene	<50	ug/L		dmd	10/04/1999	SW 8260B	50
1,1,1-Trichloroethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,1,2-Trichloroethane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
Trichloroethylene	170	ug/L		dmd	10/04/1999	SW 8260B	10
Trichlorofluoromethane	<40	ug/L		dmd	10/04/1999	SW 8260B	40
1,2,3-Trichloropropane	<10	ug/L		dmd	10/04/1999	SW 8260B	10
1,2,4-Trimethylbenzene	148	ug/L		dmd	10/04/1999	SW 8260B	10
1,3,5-Trimethylbenzene	39.9	ug/L		dmd	10/04/1999	SW 8260B	10
Vinyl Chloride	494	ug/L		dmd	10/04/1999	SW 8260B	10
Xylenes, Total	382	ug/L		dmd	10/04/1999	SW 8260B	30

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530272

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-1-2 (5-7') Clinton Engines

Date Taken: 09/23/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Extraction Prep, soil	complete			jlc	10/01/1999	IOWA-OA2	
EXTRACTABLE HYDROCARBONS-SOIL							
Total Extractable Hydrocarbons	<10	mg/kg		asz	10/01/1999	IA-OA2/S-8015	10
Diesel	<10	mg/kg		asz	10/01/1999	IA-OA2/S-8015	10
Gasoline	<10	mg/kg		asz	10/01/1999	IA-OA2/S-8015	10
Motor Oil	<10	mg/kg		asz	10/01/1999	IA-OA2/S-8015	10
VOLATILES - BTEX (NONAQUEOUS)							
Benzene	<0.25	ug/g		asz	10/01/1999	IA-OA1	0.25
Toluene	<0.5	ug/g		asz	10/01/1999	IA-OA1	0.5
Ethylbenzene	<0.5	ug/g		asz	10/01/1999	IA-OA1	0.5
Xylenes, Total	<0.5	ug/g		asz	10/01/1999	IA-OA1	0.5

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530273

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-4-3 (10-12') Clinton Engines

Date Taken: 09/23/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Extraction Prep, soil	complete			jlc	10/01/1999	IOWA-OA2	
EXTRACTABLE HYDROCARBONS-SOIL							
Total Extractable Hydrocarbons	240	mg/kg		asz	10/04/1999	IA-OA2/S-8015	50
Diesel	<50	mg/kg		asz	10/04/1999	IA-OA2/S-8015	50
Gasoline	<50	mg/kg		asz	10/04/1999	IA-OA2/S-8015	50
Motor Oil	240	mg/kg		asz	10/04/1999	IA-OA2/S-8015	50
VOLATILES - BTEX (NONAQUEOUS)							
Benzene	0.68	ug/g		asz	10/01/1999	IA-OA1	0.5
Toluene	1.0	ug/g		asz	10/01/1999	IA-OA1	1
Ethylbenzene	<1	ug/g		asz	10/01/1999	IA-OA1	1
Xylenes, Total	2.5	ug/g		asz	10/01/1999	IA-OA1	1

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530274

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-9-4 (5-7') Clinton Engines

Date Taken: 09/24/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Extraction Prep, soil	complete			jdm	10/05/1999	IOWA-OA2	
EXTRACTABLE HYDROCARBONS-SOIL							
Total Extractable Hydrocarbons	<10	mg/kg		asz	10/06/1999	IA-OA2/S-8015	10
Diesel	<10	mg/kg		asz	10/06/1999	IA-OA2/S-8015	10
Gasoline	<10	mg/kg		asz	10/06/1999	IA-OA2/S-8015	10
Motor Oil	<10	mg/kg		asz	10/06/1999	IA-OA2/S-8015	10
VOLATILES - BTEX (NONAQUEOUS)							
Benzene	<0.25	ug/g		asz	10/01/1999	IA-OA1	0.25
Toluene	<0.5	ug/g		asz	10/01/1999	IA-OA1	0.5
Ethylbenzene	<0.5	ug/g		asz	10/01/1999	IA-OA1	0.5
Xylenes, Total	<0.5	ug/g		asz	10/01/1999	IA-OA1	0.5

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530275

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-2-3 (10-12') Clinton Engines

Date Taken: 09/23/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Cyanide,Total	<0.50	mg/kg		cjh	10/06/1999	SW 9012	0.50
% Solids	80.01	%		sas	09/28/1999		1
Mercury,CVAA	0.035	mg/kg		lmc	09/29/1999	EPA 245.5	0.020
ICP Metals Prep (Solid)	1.038	g		mpc	10/01/1999		
ICP Metals-Solid	Complete	mg/kg		maw	10/04/1999	SW 6010B	
Antimony, ICP	<5.0	mg/kg	MSO	maw	10/04/1999	SW 6010B	5.0
Arsenic, ICP	<4.0	mg/kg		maw	10/04/1999	SW 6010B	4.0
Beryllium, ICP	0.735	mg/kg		maw	10/04/1999	SW 6010B	0.50
Cadmium, ICP	1.1	mg/kg		maw	10/04/1999	SW 6010B	1.0
Chromium, ICP	9.8	mg/kg		maw	10/04/1999	SW 6010B	1.0
Copper, ICP	21	mg/kg		maw	10/04/1999	SW 6010B	1.0
Lead, ICP	11	mg/kg		maw	10/04/1999	SW 6010B	5.0
Nickel, ICP	16	mg/kg		maw	10/04/1999	SW 6010B	2.5
Selenium, ICP	<7.5	mg/kg		maw	10/04/1999	SW 6010B	7.5
Silver, ICP	<1.0	mg/kg		maw	10/04/1999	SW 6010B	1.0
Thallium, ICP	<50	mg/kg		maw	10/04/1999	SW 6010B	50
Zinc, ICP	55	mg/kg		maw	10/04/1999	SW 6010B	1.0
Prep, PEST/PCB'S NONAQUEOUS	complete			asz	09/27/1999	SW 3540	
PESTICIDES/PCB'S Non-Aqueous							
PCB-1016/1242	<0.5	ug/g		sjg	09/28/1999	SW 8082	0.5
PCB-1221	<0.5	ug/g		sjg	09/28/1999	SW 8082	0.5
PCB-1232	<0.5	ug/g		sjg	09/28/1999	SW 8082	0.5

MSO - MS and/or MSD are out of control for this analyte

R.L. Bindert
Operations Manager

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530275

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-2-3 (10-12') Clinton Engines

Date Taken: 09/23/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
PCB-1248	<0.5	ug/g		sjg	09/28/1999	SW 8082	0.5
PCB-1254	<0.5	ug/g		sjg	09/28/1999	SW 8082	0.5
PCB-1260	<0.5	ug/g		sjg	09/28/1999	SW 8082	0.5
PCB-1268	<0.5	ug/g		sjg	09/28/1999	SW 8082	0.5

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530276

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-6-3 Clinton Engines

Date Taken: 09/24/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
VOLATILES 8260 NON-AQUEOUS							
Benzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Bromobenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Bromochloromethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Bromodichloromethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Bromoform	<240	ug/kg		mmk	10/07/1999	SW 8260B	240
Bromomethane	<480	ug/kg		mmk	10/07/1999	SW 8260B	480
n-Butylbenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
sec-Butylbenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
tert-Butylbenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Carbon tetrachloride	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Chlorobenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Chlorodibromomethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Chloroethane	<480	ug/kg		mmk	10/07/1999	SW 8260B	480
Chloroform	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Chloromethane	<480	ug/kg		mmk	10/07/1999	SW 8260B	480
2-Chlorotoluene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
4-Chlorotoluene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,2-Dibromo-3-chloropropane	<1,200	ug/kg		mmk	10/07/1999	SW 8260B	1,200
1,2-Dibromoethane	<1,200	ug/kg		mmk	10/07/1999	SW 8260B	1,200
Dibromomethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,2-Dichlorobenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530276

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-6-3 Clinton Engines

Date Taken: 09/24/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
1,3-Dichlorobenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,4-Dichlorobenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Dichlorodifluoromethane	<360	ug/kg		mmk	10/07/1999	SW 8260B	360
1,1-Dichloroethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,2-Dichloroethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,1-Dichloroethene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
cis-1,2-Dichloroethene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
trans-1,2-Dichloroethene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,2-Dichloropropane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,3-Dichloropropane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
2,2-Dichloropropane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,1-Dichloropropene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
cis-1,3-Dichloropropene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
trans-1,3-Dichloropropene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Ethylbenzene	786	ug/kg		mmk	10/07/1999	SW 8260B	120
Hexachlorobutadiene	<600	ug/kg		mmk	10/07/1999	SW 8260B	600
Isopropylbenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
p-Isopropyltoluene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Methylene chloride	<1,200	ug/kg		mmk	10/07/1999	SW 8260B	1,200
MTBE	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Naphthalene	<600	ug/kg		mmk	10/07/1999	SW 8260B	600
n-Propylbenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120

R.L. Bindert
Operations Manager

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530276

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-6-3 Clinton Engines

Date Taken: 09/24/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Styrene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,1,1,2-Tetrachloroethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,1,2,2-Tetrachloroethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Tetrachloroethene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Toluene	604,000	ug/kg		mmk	10/07/1999	SW 8260B	1,200
1,2,3-Trichlorobenzene	<600	ug/kg		mmk	10/07/1999	SW 8260B	600
1,2,4-Trichlorobenzene	<600	ug/kg		mmk	10/07/1999	SW 8260B	600
1,1,1-Trichloroethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,1,2-Trichloroethane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Trichloroethylene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Trichlorofluoromethane	<480	ug/kg		mmk	10/07/1999	SW 8260B	480
1,2,3-Trichloropropane	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
1,2,4-Trimethylbenzene	268	ug/kg		mmk	10/07/1999	SW 8260B	120
1,3,5-Trimethylbenzene	<120	ug/kg		mmk	10/07/1999	SW 8260B	120
Vinyl Chloride	<360	ug/kg		mmk	10/07/1999	SW 8260B	360
Xylenes, Total	2,690	ug/kg		mmk	10/07/1999	SW 8260B	120

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530277

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-3-1 (0-3') Clinton Engines

Date Taken: 09/23/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Cyanide,Total	0.63	mg/kg		cjh	10/06/1999	SW 9012	0.50
Mercury,CVAA	0.031	mg/kg		lmc	09/29/1999	EPA 245.5	0.020
ICP Metals Prep (Solid)	1.058	g		mpc	10/01/1999		
ICP Metals-Solid	Complete	mg/kg		maw	10/04/1999	SW 6010B	
Antimony, ICP	<5.0	mg/kg		maw	10/04/1999	SW 6010B	5.0
Arsenic, ICP	<4.0	mg/kg		maw	10/04/1999	SW 6010B	4.0
Beryllium, ICP	0.623	mg/kg		maw	10/04/1999	SW 6010B	0.50
Cadmium, ICP	3.4	mg/kg		maw	10/04/1999	SW 6010B	1.0
Chromium, ICP	160	mg/kg		maw	10/04/1999	SW 6010B	1.0
Copper, ICP	490	mg/kg		maw	10/04/1999	SW 6010B	1.0
Lead, ICP	230	mg/kg		maw	10/04/1999	SW 6010B	5.0
Nickel, ICP	30	mg/kg		maw	10/04/1999	SW 6010B	2.5
Selenium, ICP	<7.5	mg/kg		maw	10/04/1999	SW 6010B	7.5
Silver, ICP	<1.0	mg/kg		maw	10/04/1999	SW 6010B	1.0
Thallium, ICP	<50	mg/kg		maw	10/04/1999	SW 6010B	50
Zinc, ICP	810	mg/kg		maw	10/04/1999	SW 6010B	1.0

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530278

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-7-2 Clinton Engines

Date Taken: 09/24/1999 Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Cyanide,Total	<0.50	mg/kg		cjh	10/06/1999	SW 9012	0.50
Mercury,CVAA	0.032	mg/kg		lmc	09/29/1999	EPA 245.5	0.020
ICP Metals Prep (Solid)	1.005	g		mpc	10/01/1999		
ICP Metals-Solid	Complete	mg/kg		maw	10/04/1999	SW 6010B	
Antimony, ICP	<5.0	mg/kg		maw	10/04/1999	SW 6010B	5.0
Arsenic, ICP	6.0	mg/kg		maw	10/04/1999	SW 6010B	4.0
Beryllium, ICP	0.762	mg/kg		maw	10/04/1999	SW 6010B	0.50
Cadmium, ICP	1.4	mg/kg		maw	10/04/1999	SW 6010B	1.0
Chromium, ICP	7.2	mg/kg		maw	10/04/1999	SW 6010B	1.0
Copper, ICP	13	mg/kg		maw	10/04/1999	SW 6010B	1.0
Lead, ICP	11	mg/kg		maw	10/04/1999	SW 6010B	5.0
Nickel, ICP	22	mg/kg		maw	10/04/1999	SW 6010B	2.5
Selenium, ICP	<7.5	mg/kg		maw	10/04/1999	SW 6010B	7.5
Silver, ICP	<1.0	mg/kg		maw	10/04/1999	SW 6010B	1.0
Thallium, ICP	<50	mg/kg		maw	10/04/1999	SW 6010B	50
Zinc, ICP	39	mg/kg		maw	10/04/1999	SW 6010B	1.0

R.L. Bindert
Operations Manager

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Paul Loete
MISSMAN STANLEY & ASSOC.
2415 18th St., Ste. #206
Bettendorf, IA 52722

10/12/1999

Job Number: 99.12483

Sample Number: 530279

Project ID: Clinton Engines/Maquoketa #C99E028

Sample ID: B-8-1 Clinton Engines

Date Taken: 09/24/1999

Date Received: 09/25/1999

Analyte	Result	Units	Result Flag	Analyst	Date Analyzed	Method	Quantitation Limit
Cyanide,Total	<0.50	mg/kg		cjh	10/06/1999	SW 9012	0.50
Mercury,CVAA	0.024	mg/kg		lmc	09/29/1999	EPA 245.5	0.020
ICP Metals Prep (Solid)	1.009	g		mpc	10/01/1999		
ICP Metals-Solid	Complete	mg/kg		maw	10/04/1999	SW 6010B	
Antimony, ICP	<5.0	mg/kg		maw	10/04/1999	SW 6010B	5.0
Arsenic, ICP	<4.0	mg/kg		maw	10/04/1999	SW 6010B	4.0
Beryllium, ICP	0.664	mg/kg		maw	10/04/1999	SW 6010B	0.50
Cadmium, ICP	<1.0	mg/kg		maw	10/04/1999	SW 6010B	1.0
Chromium, ICP	6.2	mg/kg		maw	10/04/1999	SW 6010B	1.0
Copper, ICP	10	mg/kg		maw	10/04/1999	SW 6010B	1.0
Lead, ICP	14	mg/kg		maw	10/04/1999	SW 6010B	5.0
Nickel, ICP	12	mg/kg		maw	10/04/1999	SW 6010B	2.5
Selenium, ICP	<7.5	mg/kg		maw	10/04/1999	SW 6010B	7.5
Silver, ICP	<1.0	mg/kg		maw	10/04/1999	SW 6010B	1.0
Thallium, ICP	<50	mg/kg		maw	10/04/1999	SW 6010B	50
Zinc, ICP	220	mg/kg		maw	10/04/1999	SW 6010B	1.0

R.L. Bindert
Operations Manager

704 ENTERPRISE DRIVE / CEDAR FALLS, IA 50613 / 319-277-2401 / FAX: 319-277-2425 / 800-750-2401

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET, Inc. - Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319 - 277 - 2401 or 1 - 800 - 750 - 2401
FAX 319 - 277 - 2425

Company: Missman, Stanley & Assoc
Send Report To: 2415 18th St, Ste 203
Attn: Address: Bettendorf, Iowa 52722
~~City/State/Zip Code~~: Paul Loeto
Telephone Number: 319-344-0260 Fax: 319-344-0263
Sampled By: (Print Name) Keri Couet
(Signature)

PO #: —
Invoice to: Same
NET Quote #:
Project Name: Clinton Engines Maquoketa, IA
Project Number: C99E028
Project Manager: Paul Loeto

Sample ID	Date Sampled (1999)	Time Sampled	# of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 (Yellow & White Label)	None (Black & White Label)	Other (Specify):	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (Specify):	VOCs										48 HR TAT (SEE NOTE)	5 DAY TAT (SEE NOTE)	STANDARD TAT (10 DAYS)	Fax Results	Send QC Data with report
B-8-1	9-24	10:20	2	X														X																
B-6-1	9-24	8:50	3	X														X					HOLD											
B-3	9-23	1115	3	X										X				X		X			HOLD											

Preservative | Matrix | Analyze for: | Results need

NOTE: All turn around times are calculated from the time of receipt at NET.

NOTE: There may be a charge for NET disposing of sample

NOTE: PRE-ARRANGEMENTS MUST BE MADE AT LEAST 48 HOURS IN ADVANCE TO RECEIVE RESULTS WITH THESE TURN AROUND TIME COMMITMENTS. ADDITIONAL CHARGES MAY BE ASSESSED.

NOTES:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	DATE	TIME
Erin Doan	9/24/99		Dan [illegible]	9/24/99	1441		
RECEIVED FOR NET BY:	DATE	TIME	COC SEALS PRESENT AND INTACT? YES NO NA	SHIPPED VIA:			
Donna Fobian	9/25/99	820	TEMPERATURE UPON RECEIPT	ARE THESE SAMPLES [illegible]			

ED_006017_00000185-00111

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET, Inc. - Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319 - 277 - 2401 or 1 - 800 - 750 - 2401
FAX 319 - 277 - 2425

Company: Missman, Stanley & Assoc
Send Report To: Paul Loete
Address: 2415 18th Street, Ste 203
City/State/Zip Code: Bettendorf, IA 52722
Telephone Number: 319-344-0260 Fax: 319-344-0263
Sampled By: (Print Name) Keri Couet
(Signature)

PO #: —
Invoice to: same
NET Quote #:
Project Name: Clinton Engines Maquoketa, IA
Project Number: C99E028
Project Manager: Paul Loete

Sample ID	Date Sampled 1999	Time Sampled	# of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 (Yellow & White Label)	None (Black & White Label)	Other (Specify):	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (Specify):	Analyze for: OA-1	OA-2	PP Metals	Cyanide	PCB's	VOCs	Results need: 48 HR TAT (SEE NOTE)	5 DAY TAT (SEE NOTE)	STANDARD TAT (10 DAYS)	Fax Results	Send QC Data with report
B-3-3 (5-7')	9-23	11:56	2	X			X					X						X				X	X	Hold						
B-3-4 (10-12')	9-23	12:05	2	X			X					X						X				X	X							
B-4-3 (10-12')	9-23	1:50	3	X			X					X						X		X	X									
B-9	9-24	11:30	4	X			X					X		X						X	X									
B-9-4 (5-7')	9-24	11:30	3	X			X					X								X	X									
B-6	9-24	10:50	3	X			X					X		X											X					
B-6-3	9-24	9:00	3	X			X					X						X							X					
B-7-2	9-24	9:55	3	X			X					X						X				X	X							
B-8-2	9-24	10:25	3	X			X					X						X				X	X							

NOTE: All turn around times are calculated from the time of receipt at NET.

NOTE: There may be a charge for NET disposing of sample

NOTE: PRE-ARRANGEMENTS MUST BE MADE AT LEAST 48 HOURS IN ADVANCE TO RECEIVE RESULTS WITH THESE TURN AROUND TIME COMMITMENTS. ADDITIONAL CHARGES MAY BE ASSESSED.

NOTES:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	DATE	TIME
Erin Dean	9/24/99	1440	Dan Gibson	9/24/99	1441		
RECEIVED FOR NET BY:	DATE	TIME	COC SEALS PRESENT AND INTACT? YES NO NA	SHIPPED VIA:			
Norma Tobian	9/25/99	8:00	TEMPERATURE UPON RECEIPT	ARE THESE SAMPLES FOR NPDES COLLECTION			

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET, Inc. - Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319 - 277 - 2401 or 1 - 800 - 750 - 2401
FAX 319 - 277 - 2425

Company: Missman, Stanley & Assoc
Send Report To: Paul Loete
Address: 2415 18th St, Ste 203
City/State/Zip Code: Bettendorf, IA
Telephone Number: 319-344-0260 Fax: 319-344-0263
Sampled By: (Print Name) Keri Couet
(Signature)

PO #:
Invoice to: Same
NET Quote #:
Project Name: Clinton Engines Maquoketa, IA
Project Number: E99E028
Project Manager: Paul Loete

Sample ID	Date Sampled 1999	Time Sampled	# of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Ice	HNO3 (Red & White Label)	HCl (Blue & White Label)	NaOH (Orange & White Label)	H2SO4 (Yellow & White Label)	None (Black & White Label)	Other (Specify):	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (Specify):	Analyze for: OA-1	OA-2	PP Metals	Cyanide	PCB's	Results need: 48 HR TAT (SEE NOTE)	5 DAY TAT (SEE NOTE)	STANDARD TAT (10 DAYS)	Fax Results	Send QC Data with report
B-1	9-23	12:40	1	X								X		X						X	X								
B-1	9-23	12:40	3	X								X		X						X	X								
~~B-2~~	~~9-23~~	~~1:45~~	~~3~~	~~X~~								~~X~~		~~X~~				~~X~~				~~X~~	~~X~~	~~X~~					
B-2	9-23	1:20	2	X				X						X				~~X~~				X	X	X					
B-2	9-23	2:40	1	X						X				X				~~X~~				X	X	X					
B-1-2 (5-7')	9-23	9:55	3	X								X						X		X	X								
B-2-1 (0-3')	9-23	10:45	3	X								X						X				~~X~~	~~X~~	~~X~~	Hold				
B-2-3 (10-12')	9-23	11:07	2	X								X						X				X	X	X					
B-3-1 (0-3')	9-23	11:45	3	X								X						X				~~X~~	~~X~~	Hold					

NOTE: All turn around times are calculated from the time of receipt at NET.

NOTE: There may be a charge for NET disposing of sample

NOTE: PRE-ARRANGEMENTS MUST BE MADE AT LEAST 48 HOURS IN ADVANCE TO RECEIVE RESULTS WITH THESE TURN AROUND TIME COMMITMENTS. ADDITIONAL CHARGES MAY BE ASSESSED.

NOTES:

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	DATE	TIME
Erin Dean	9/24/99		Dan Gotsing	9/24/99	1441		
RECEIVED FOR NET BY:	DATE	TIME	COC SEALS PRESENT AND INTACT? YES NO NA	SHIPPED VIA:			
Norma Fobian	9/25/99	8:00	TEMPERATURE UPON RECEIPT	ARE THESE SAMPLES FOR NPDES COMPLIANCE			

BULK SAMPLE DATA SHEET

Spectrum
2704 - 7th Avenue · Moline, Illinois 61265
Phone: (309) 762-0407 · Fax: (309) 762-0222

Client Information

Client: Missman, Stanley's & Associates
Location: Clinton Engines, East Maple St. Maquoketa
Building: Building 1-Office Building
Project #: C99E028

Sample Number	Color	Description or Location	Asbestos Content: Amosite	Asbestos Content: Chrysotile	Asbestos Content: Other	Asbestos Content: Total Asbestos	Non-Asbestos Content: Cellulose	Non-Asbestos Content: Fibrous Glass	Non-Asbestos Content: Other	Non-Asbestos Content: Total Non-Fibrous
B1-EFT-1	LtGrn	Stairway Entr. Tile		5-7		5-7				93-95
B1-EFT-2	LtGrn	Stairway Entr. Tile								Not Analyzed
B1-EFT-3	LtGrn	Stairway Entr. Tile								Not Analyzed
B1-WAF-1	Grn	Waiting Area F.Tile				NAD			1-2	98-100
B1-WAF-2	Grn	Waiting Area F. Tile				NAD			1-2	98-100
B1-WAF-3	Grn	Waiting Area F. Tile				NAD			1-2	98-100
B1-HFT-1	Brn	Hallway & Exit F.Tile				NAD	2-3			97-98
B1-HFT-2	Brn	Hallway & Exit F. Tile				NAD	2-3			97-98
B1-HFT-3	Brn	Hallway & Exit F. Tile				NAD	2-3			97-98
B1-RRFT-1	Grn/Bk	Womens RR F. Tile		10-12		10-12				88-90
B1-RRFT-2	Grn/Bk	Womens RR F. Tile								Not Analyzed
B1-RRFT-3	Grn/Bk	Womens RR F. Tile								Not Analyzed

C.O.C. Relinquished By: Wendy Rouse — Date: 09/17/99 — Time: 03:40
C.O.C. Received By: William Weckerly/JRB — Date: 09/17/99 — Time: 03:40
Samples Taken By: Client
Inspector Identification:
Analysis By: Jon Bragman

Lab Ref Number: 6981
Analyst Number: jrb-01
Sample Date:
Analysis Date: 09/22/99

ED_006017_00000185-00114

BULK SAMPLE DATA SHEET

Spectrum
1704 - 7th Avenue · Moline, Illinois 61265
Phone: (309) 762-0407 · Fax: (309) 762-0322

Client Information

Client: Missman, Stanley's & Assoc.
Location: Clinton Engines, E. Maple St., Maquoketa
Building: Building 1 - Office Building
Project #: C99E028

Sample Number	Color	Description or Location	Asbestos Content: Amosite	Asbestos Content: Chrysotile	Asbestos Content: Other	Asbestos Content: Total Asbestos	Non-Asbestos Content: Cellulose	Non-Asbestos Content: Fibrous Glass	Non-Asbestos Content: Other	Non-Asbestos Content: Total Non-Fibrous
B1-EO-1	Red/Bl	East Offices F.T.		5-7		5-7				93-95
B1-EO-2										Not Analyzed
B1-EO-3										Not Analyzed
B1-CT1-1	White	W. N. Offices-C.T.				NAD		95-99		1-5
B1-CT1-2	White	W. N. Offices-C.T.				NAD		95-99		1-5
B1-CT1-3	White	W. N. Offices-C.T.				NAD		95-99		1-5
B1-CT2-1	White	South Office-C.T.				NAD	98-99			1-2
B1-CT2-2	White	South Office-C.T.				NAD	98-99			1-2
B1-CT2-3	White	South Office-C.T.				NAD	98-99			1-2
B1-CT3-1	White	Hallway, Entry, East				NAD	98-99			1-2
B1-CT3-2	White	Hallway, Entry, East				NAD	98-99			1-2
B1-CT3-3	White	Hallway, Entry, East				NAD	98-99			1-2

C.O.C. Relinquished By: Wendy Rouse — Date: 09/17/99 — Time: 03:40
C.O.C. Received By: William Weckerly/JRB — Date: 09/17/99 — Time: 03:40
Samples Taken By: Client — Inspector Identification:
Analysis By: Jon Bregman

Lab Ref Number: 6981
Analyst Number: JRB-01
Sample Date:
Analysis Date: 09/22/99

ED_006017_00000185-00115

BULK SAMPLE DATA SHEET

ctrum
2704 - 7th Avenue · Moline, Illinois 61265
Phone: (309) 762-0407 · Fax: (309) 762-0822

Client Information

Client: Missman, Stanley's, & Assoc.
Location: Clinton Engines, East Maple St., Maquoketa, Ia.
Building: Building 1-Office Building
Project #: C99EO28

Sample Number	Color	Description or Location	Asbestos Content: Amosite	Chrysotile	Other	Total Asbestos	Non-Asbestos Content: Cellulose	Fibrous Glass	Other	Total Non-Fibrous
B1-WO-1	Grn/Bk	West Offices-Linol.				NAD	45-50			50-55
B1-WO-2	Grn/Bk	West Offices-Linol.		5-10		5-10	15-20			70-80
B1-WO-3	Grn/Bk	West Offices-Linol.								Not Analyzed
B1-NO1-1	Brn/Bk	N.W. Office-F.T.				NAD				99-100
B1-NO1-2	Brn/Bk	N.W. Office-F.T.				NAD				99-100
B1-NO1-3	Brn/Bk	N.W. Office-F.T.				NAD				99-100
B1-NO2-1	DkBrn	North Office-F.T.				NAD	30-35			65-70
B1-NO2-2	DkBrn	North Office-F.T.				NAD	30-35			65-70
B1-NO2-3	DkBrn	North Office-F.T.				NAD	30-35			65-70
B1-SO-1	Brn/M	South Office-Linol.		2-3		2-3	15-20			78-83
B1-SO-2										Not Analyzed
B1-SO-3										Not Analyzed

C.O.C. Relinquished By: Wendy Rouse — Date: 09/17/99 — Time: 03:40
C.O.C. Received By: William Weckerly/JRB — Date: 09/17/99 — Time: 03:40
Samples Taken By:
Analysis By: Jon Bregman
Inspector Identification:

Lab Ref Number: 6981
Analyst Number: JRB-01
Sample Date:
Analysis Date: 09/22/99

ED_006017_00000185-00116

BULK SAMPLE DATA SHEET

ctrum
1204 - 7th Avenue · Moline, Illinois 61265
Phone: (309) 762-0407 · Fax: (309) 762-0622

Client Information

Client: Missman, Stanley's & Assoc.
Location: Clinton Engines, E. Maple St., Maquoketa, Ia.
Building:
Project #: C99EO28

Sample Number	Color	Description or Location	Asbestos Content: Amosite	Chrysotile	Other	Total Asbestos	Non-Asbestos Content: Cellulose	Fibrous Glass	Other	Total Non-Fibrous
B1-BT-1	Yell	Basement Thermal D.				NAD		99-100		
B1-BT-2	Yell	Basement Thermal D.				NAD		99-100		
B1-BT-3	Yell	Basement Thermal D.				NAD		99-100		
B1-R-1	Blk	Roof's Flashing				NAD	<1	5-7	93-95	
B1-R-2	Blk	Roof's Flashing				NAD	<1	5-7	93-95	
B1-R-3	Blk	Roof's Flashing				NAD	<1	5-7	93-95	
B2-R-1	Blk	Bldg.2-Roofing				NAD	15		85	
B2-R-2	Blk	Bldg.2-Roofing				NAD	15		85	
B2-R-3	Blk	Bldg.2-Roofing				NAD	15		85	
B2-RF-1	Blk	Bldg.2-Flashing		20		20			80	
B2-RF-2	Blk	Bldg.2-Flashing								Not Analyzed
B2-RF-3	Blk	Bldg.2-Flashing								Not Analyzed

C.O.C. Relinquished By: Wendy Rouse — Date: 09/17/99 — Time: 03:40
C.O.C. Received By: William Weckerly/JRB — Date: 09/17/00 — Time: 03:40
Samples Taken By: Client
Inspector Identification:
Analysis By: Jon Bergman

Lab Ref Number: 6981
Analyst Number: JRB01
Sample Date: 09/17/99
Analysis Date: 09/20/99

ED_006017_00000185-00117

BULK SAMPLE DATA SHEET

ctrum
1704 - 7th Avenue · Moline, Illinois 61265
Phone: (309) 762-0407 · Fax: (309) 762-0222

Client Information

Client: Missman, Stanley's & Assoc.
Location: Clinton Engines, E. Maples St., Maquoketa, Ia.
Building: Building 1
Project #: C99E028

Sample Number	Color	Description or Location	Asbestos Content: Amosite	Chrysotile	Other	Total Asbestos	Non-Asbestos Content: Cellulose	Fibrous Glass	Other	Total Non-Fibrous
B1-WB-1	Bk	Wall board throughout		10		10				90
B1-WB-2										Not Analyzed
B1-WB-3										Not Analyzed
B1-WS-1	Wh	Wall Surface in Off.				NAD	<1			99-100
B1-WS-2	Wh	Wall Surface in Off.				NAD	<1			99-100
B1-WS-3	Wh	Wall Surface in Off.				NAD	<1			99-100
B1-WS-4	Wh	Wall Surface in Off.				NAD	<1			99-100
B1-WS-5	Wh	Wall Surface in Off.				NAD	<1			99-100
B1-BRRF-1	LtBrn	Basement Mens		12		12				88
B1-BRRF-2										Not Analyzed
B1-BRRF-3										Not Analyzed

C.O.C. Relinquished By: Wendy Rouse — Date: 09/17/99 — Time: 03:40
C.O.C. Received By: William Weckerly — Date: 09/17/99 — Time: 03:40
Samples Taken By: Client — Inspector Identification:
Analysis By: Jom Bregman

Lab Ref Number: 6981
Analyst Number: JRB-01
Sample Date:
Analysis Date: 09/22/99

ED_006017_00000185-00118

BULK SAMPLE DATA SHEET

ctrum
2704 - 7th Avenue · Moline, Illinois 61265
Phone: (309) 762-0407 · Fax: (309) 762-0822

Client Information

Client: Missman, Stanley's Assoc.
Location: Clinton Engines Maquoketa, Ia.
Building:
Project #: C99EO28

Sample Number	Color	Description or Location	Asbestos Content: Amosite	Chrysotile	Other	Total Asbestos	Non-Asbestos Content: Cellulose	Fibrous Glass	Other	Total Non-Fibrous
B2-T-1	Yell	Pipe Insulation				NAD	25	75		
B2-T-2	Yell	Pipe Insulation				NAD	25	75		
B2-T-3	Yell	Pipe Insulation				NAD	25	75		
B3-ET-1	Wh	Thermal Insulation				NAD		99-100		
B3-ET-2	Wh	Thermal Insulation				NAD		99-100		
B3-ET-3	Wh	Thermal Insulation				NAD		99-100		
B4-CR-1	Wh	Ceiling & Roof				NAD	10		90	
B4-CR-2	Wh	Ceiling & Roof				NAD	10		90	
B4-CR-3	Wh	Ceiling & Roof				NAD	10		90	

C.O.C. Relinquished By: Wendy Rouse — Date: 09/17/99 — Time: 03:40
C.O.C. Received By: William Weckerly — Date: 09/17/99 — Time: 03:40
Samples Taken By: Client
Inspector Identification:
Analysis By: Jon Bregman

Lab Ref Number: 6981
Analyst Number: JRB-01
Sample Date: 09/17/99
Analysis Date: 09/22/99

APPENDIX E

Photographs

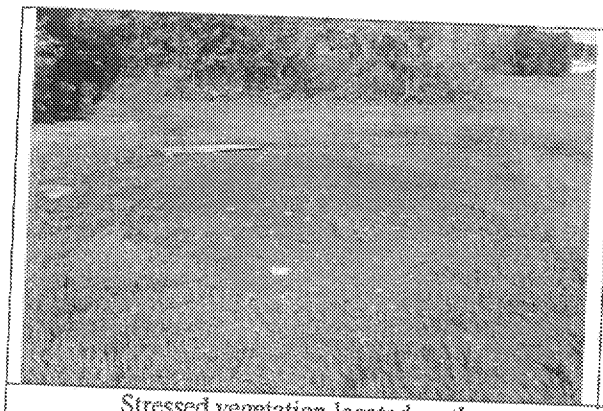
ED_006017_00000185-00120

A view of the subject property facing northeast.

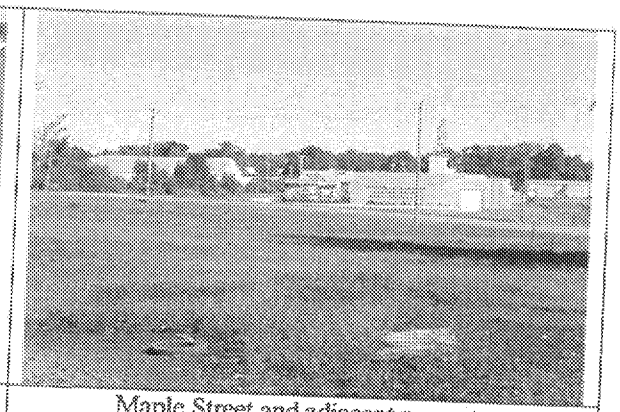
A view of the office building facing south.

A view of the subject property facing south.

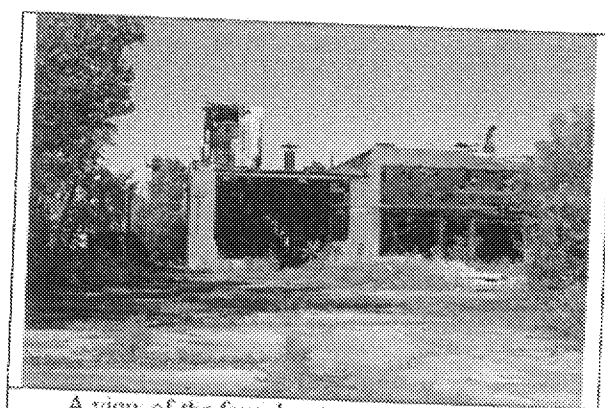
Looking south at the eastern portion of subject property. Specifically a concrete pad formerly used for drain storage.



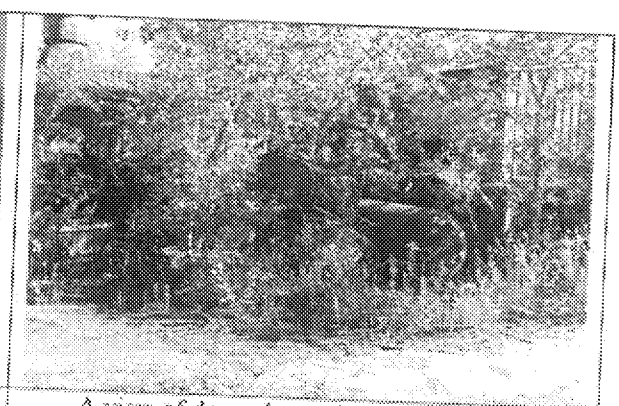
Stressed vegetation located on the north side of the main structure.



Maple Street and adjacent property located north of the subject property.

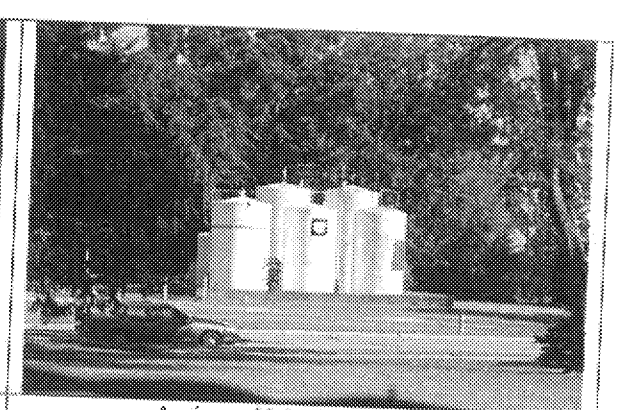


A view of the foundry structure facing west.

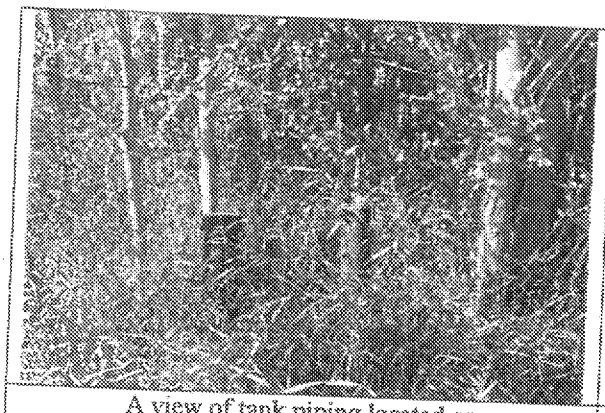


A view of drums located on the south side of the easterly building.

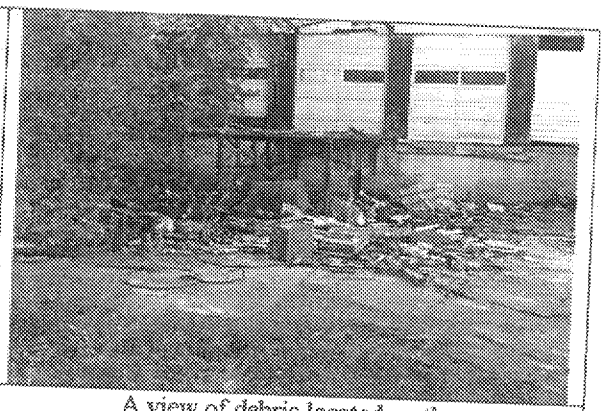
A view of the main structure facing east.



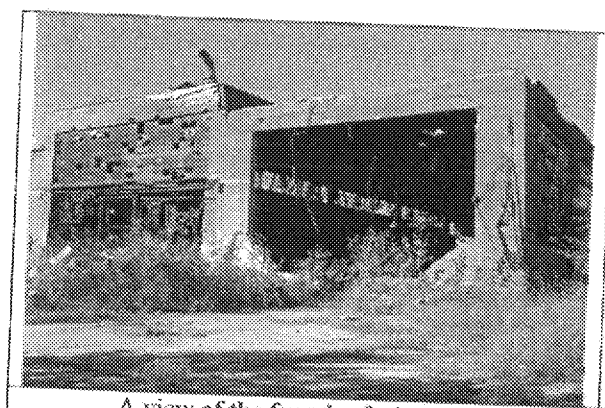
A view of Maple Street and the adjacent property to the north.



A view of tank piping located on the east side of the metal shed.

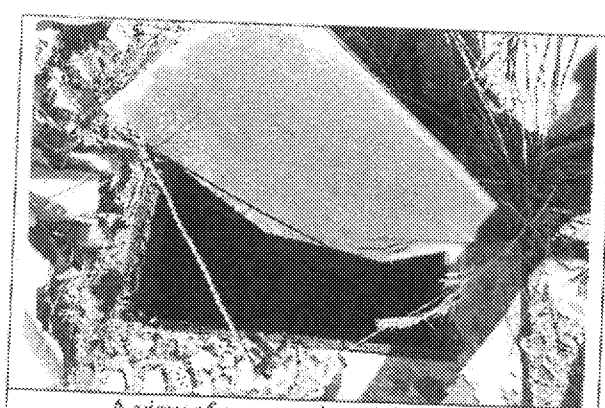


A view of debris located on the north side of the shipping area.

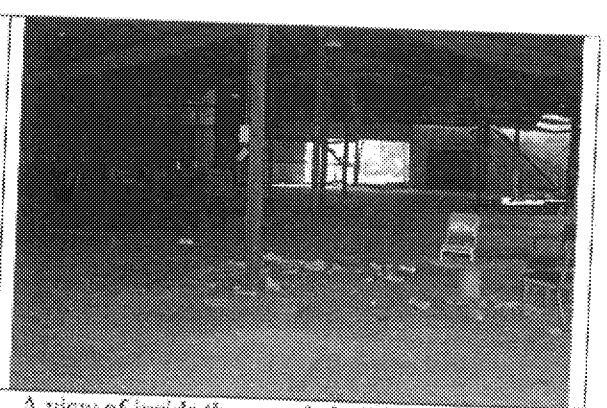


A view of the foundry facing west.

Concrete debris located immediately east of the foundry structure.



A view of a sump pit and lid located immediately east of the foundry structure.



A view of inside the easterly buildings facing east.