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Interim Investigation Report

The Lockformer Company
711 Ogden Avenue and
Undeveloped West Parcel
Lisle, Illinois

Volume 1 of 3
Text, Figures, Tables, Appendices A through C

Prepared for:
THE LOCKFORMER COMPANY
Lisle, Illinois

Prepared by:
CLAYTON GROUP SERVICES, INC.
3140 Finley Road
Downers Grove, Illinois 60515
630-795-3200

Clayton Project 15-65263.01

January 25, 2001

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January 25, 2001

Mr. Marc Cummings
Site Remediation Program
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
1021 North Grand Avenue East
Springfield, Illinois 62702

Re: Interim Investigation Report
Lisle / Lockformer
711 Ogden Avenue
Site Remediation Technical File

Dear Marc:

On behalf of Lockformer, Clayton Group Services, Inc. (Clayton) has enclosed six copies of the *Interim Investigation Report* for the above-referenced site.

In addition, find enclosed an Illinois Environmental Protection Agency (IEPA) Site Remediation Program (SRP) Form (DRM-2) that is to be submitted with all plans and reports as Appendix A of this report.

If you have questions or would like additional information, please contact me at 630.795.3208.

Sincerely,

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JAN 2 9 2001
IEPA/BOL

COPY

Ronald B. St. John, PHG, CPG
Vice President
Midwest Regional Director

Enclosures

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LICENSED PROFESSIONAL GEOLOGIST
RONALD B. ST. JOHN
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1.0 EXECUTIVE SUMMARY

The subject site is owned by The Lockformer Company (Lockformer), which currently uses the site for manufacturing metal parts and equipment. The site is located in a mixed industrial / residential area on the south side of Ogden Avenue, approximately 1,300 to 1,800 feet west of Interstate 355 in Lisle, Illinois. The subject site consists of two parcels referred to as the east and west parcels.

PREVIOUS INVESTIGATIONS

To date, various investigations and reports have been completed for Lockformer. Reportedly, trichloroethene-(TCE) impacted soil was first discovered in the fall of 1991 during underground utility (water line) repair work conducted at the west side of the site building. Since this time, soil and groundwater investigations have been conducted by STS Consultants (STS) and Carlson Environmental, Inc. (CEI) to define and characterize the volatile organic compound (VOC) contamination that has been identified in the site soil and groundwater.

ADDITIONAL INVESTIGATION ACTIVITIES

Based on the conclusions and results of the investigations conducted by STS, CEI completed additional investigation activities. These additional activities to date included trenching, shallow soil borings, and the installation of shallow groundwater monitoring wells. To further define the extent of soil and groundwater contamination on the subject site, additional phases of soil borings and monitoring wells were installed. Additional soil and groundwater samples were collected and analyzed during these phases of work.

This report was prepared by Clayton and CEI. CEI prepared the first draft of this report with attachments. This initial draft summarized and characterized CEI's fieldwork and

the work of earlier consultants. An electronic version of this draft was submitted to Clayton and subsequently supplemented by them to reflect their interpretation of the data. CEI then reviewed and approved of the changes made by Clayton. The characterization of the site included in this report represents the view of both firms.

REMEDIAL OBJECTIVES

In order to delineate the soil and groundwater contamination at Lockformer, all analytical results were compared to the most stringent Tier 1 Remedial Objectives for industrial/commercial properties with Class I groundwater in accordance with Tiered Approach to Corrective Action Objectives (TACO, 35 IAC 742). The Tier 1 objectives are identified in Section 3.0 of this report. However, Tier 2 remedial objectives may be applicable and used upon further evaluation and contaminant delineation at the site.

SOIL INVESTIGATION RESULTS

Based on the soil investigations conducted onsite thus far, the following chemical parameters have been identified in soil above their corresponding soil objectives: trichloroethene (TCE), tetrachloroethene (PCE), cis-1,2-dichloroethene (cis-1,2), vinyl chloride (VC), 1,1,1-trichloroethane (1,1,1-TCA), and 1,1,2-trichloroethane (1,1,2-TCA). In addition, 1,1-dichloroethene (1,1-DCE) was detected in one soil sample collected above its corresponding Tier 1 objective of 0.06 mg/kg. As shown by the analytical soil results, the highest concentrations of TCE have been identified in the area below the former roof-mounted TCE tank and fill pipe, west of the building. Soil impacts above Tier 1 objectives have also been documented on the west parcel, but at depths greater than 10 feet below surface grade (bsg).

GROUNDWATER INVESTIGATION RESULTS

Based on the groundwater investigations conducted onsite thus far, the following chemical parameters have been identified above Tier 1 Class I objectives at least one time during sampling activities in the shallow groundwater in MW-101: TCE; chloroform; 1,2-DCE; 1,1-DCE; cis-1,2; trans-1,2-dichloroethene (trans-1,2); methylene chloride (MC); PCE; 1,1,1-TCA; 1,1,2-TCA; and VC. In addition, TCE, cis-1,2 and benzene were identified in the shallow groundwater of MW-123. The comparison to Class I groundwater objectives does not necessarily mean that the shallow occurrence of groundwater at the site exhibits the characteristics of Class I groundwater.

Based on the groundwater sampling of the deeper onsite monitoring wells, the following chemicals have been identified above Tier 1 Class I objectives at least one time during sampling activities: TCE (MW-120, MW-126, MW-401, MW-402, MW-500D, MW-515D, MW-516D, MW-517D, MW-519D [offsite], MW-521) and cis-1,2 (MW-120, MW-402, MW-500D, MW-515D, MW-516D, MW-517D). Based on the last sampling event in November 2000, TCE concentrations above objectives ranged from 0.0051 milligrams per liter (mg/L) in MW-521 to 2.1 mg/L in MW-500D. Cis-1,2 concentrations above objectives ranged from 0.078 mg/L in MW-120 to 4.8 mg/L in MW-500D.

INVESTIGATION SUMMARY

Based on the soil and groundwater sampling conducted to date, data gaps remain in the delineation of the soil and groundwater impacts above Tier 1 objectives. Additional soil sampling to define the extent of soil contamination was initiated the week of January 22, 2001. A Work Plan to perform additional groundwater investigation at the site will follow.

OBJECTIVES

Ultimately, Lockformer is seeking an IEPA Focused "No Further Remediation" (NFR) Letter for the above-referenced site for VOCs.

2.0 BACKGROUND

2.1 SITE DESCRIPTION AND HISTORY

The subject site is located at 711 Ogden Avenue in Lisle, Illinois (Figure 1, based on United States Geological Survey [USGS] 7.5 Minute Series Topographic Map, Wheaton, 1993). The subject site is split into two parcels, the east parcel and west parcel. In general, the east parcel is divided by the southeast ¼ and southwest ¼ of the southeast ¼ and southwest ¼ of the southern ½ of Section 2, Township 38 North, Range 10, East of the Third Principal Meridian, DuPage County, Illinois. The northern one-third of the west parcel is located within the southeast ¼ of the southeast ¼ of the southwest ¼ of Section 2 and the southern two-thirds of the west parcel is located within the western ½ of the northeast ¼ of the northwest ¼ of Section 11, Township 38 North, Range 10, East of the Third Principal Meridian, DuPage County, Illinois. The site is located in a mixed industrial / residential area on the south side of Ogden Avenue, approximately 1,300 to 1,800 feet west of Interstate 355.

The east parcel is developed with a partial two-story office/manufacturing building. The subject building is a rectangular-shaped office/manufacturing structure that has been utilized for the manufacture of sheet metal processing equipment and roll forming machines since 1968. The subject building contains approximately 88,000 square feet of area and is constructed of masonry and metal truss atop a concrete slab foundation. A partial basement is located under the office portion of the building. A grassy landscaped area is located at the northernmost portion of the property, adjacent to Ogden Avenue. Asphalt parking lots are located at the north and west ends of the subject building, and an asphalt drive and dock area is at the northeast portion of the property. A grassy/weedy area is at the rear of the subject building. A water reservoir for back-up sprinkler purposes and an onsite potable water well used in the manufacturing processes (non-contact cooling water) are located at the northeast corner of the building. The west

parcel contains approximately 11.3 acres of undeveloped land and is located immediately west of the east parcel (Figure 2).

Adjacent Properties

Ogden Avenue and a residential subdivision are located to the north of the subject property, and new construction (future Bill Kay car dealership) is located to the east. South of the Lockformer east parcel is an undeveloped, wooded parcel, followed by single-family homes. South of the west parcel is the Burlington Northern railroad and right-of-way followed by St. Joseph's Creek. The property is bound to the west by a multi-unit commercial building (Figure 2).

History

The site and surrounding area were reportedly developed in approximately 1940; however, based on available information the onsite subject building was built in 1968. Prior to 1968, the parcel was vacant and undeveloped farmland. Reportedly, soil was excavated during the reconstruction of Ogden Avenue and used as fill material on the subject site. The excavation and fill activities reportedly took place in the 1960s.

According to available information, the subject property was originally owned and developed by The Lockformer Company (Lockformer). Lockformer is a division of MetCoil Systems Corporation (MetCoil).

History of TCE Use and Spills

TCE degreasing solvents are utilized at the Lockformer facility. A virgin TCE tank was formerly located on the roof of the building, on the west side of the building (Figure 3). A metal fill pipe was attached to the roof-mounted TCE tank which extended down the west building wall approximately 4 feet above grade. The fill led to a plastic 55-gallon drum that was also located at grade. In addition, a TCE vapor degreasing located in a concrete vault is located within the facility (Figure 2). In August 1997, the degreaser

vault inside the facility was emptied and cleaned. A new degreasing unit was installed at that time. The roof-mounted tank was decommissioned in June 1999, and a new aboveground storage tank (AST) was constructed within the building to store the TCE.

Impacted soil was first discovered in the fall of 1991, during underground utility (water line) repair work conducted at the west side of the site building. Subsequently, in 1992, a site investigation conducted by STS noted elevated concentrations of VOCs via field screening and elevated concentrations of TCE from chemical analysis. The area encompassed in the investigation included an area beneath the TCE tank located on the roof and the fill pipe. Additional investigations were conducted to further evaluate the extent of VOC contamination at the subject property.

The largest source of the TCE contamination is believed to have occurred from various small volume releases of TCE during the connection and disconnection of the refilling of the roof tank. However, localized TCE contamination has been observed in the vicinity of the vapor degreasing unit located within the building.

2.2 PREVIOUS DOCUMENTATION AND INVESTIGATIONS

The following reports prepared by STS were available to CEI to provide background information related to the TCE release and investigations at the subject site:

- *Draft Preliminary Exploration of TCE Release*, dated June 10, 1992
- *Remedial Investigation at the Lockformer Company*, dated May 25, 1995
- *Additional Assessment of TCE Release*, dated February 14, 1997
- *Phase II Environmental Site Assessment*, dated March 4, 1997
- *Draft Focused Site Investigation/Remediation Objectives Report*, dated February 24, 1998

In addition, the following report prepared by Environmental Associated Services & Engineering, Inc. (EASE) was reviewed for the western adjacent property:

- *Phase I Environmental Site Assessment for Undeveloped Land* (West Parcel), dated April 1, 1997

Copies of these reports had been submitted to the IEPA SRP on August 5, 1998 and October 6, 1998. On August 26, 1998, CEI, on behalf of Lockformer, re-entered Lockformer into the Illinois Environmental Protection Agency (IEPA) Site Remediation Program (SRP). This was necessitated by the dissolution of the Pre-Notice Program within IEPA.

Refer to Table 1 for a summary of the investigations and sampling activities conducted by both STS and CEI.

Below is a brief description and summary of the investigation activities and results discussed in the above reports.

Draft Preliminary Exploration of TCE Release, Dated June 10, 1992

The initial investigation was conducted by STS in response to an apparent TCE release in the fall of 1991. This investigation included the advancement of 15 hand auger borings (B-1 through B-15), which are noted on Figure 4. The borings were augered at depths between 4 and 9 feet bgs. Photoionization detector (PID) readings ranged between 0 units and 900 units. The highest readings were detected in borings B-1, B-2, B-5, B-11, and B-13. In addition, five soil samples were analyzed for VOCs. TCE was detected at concentrations ranging from 21 mg/kg to 680 mg/kg at depths ranging between 1 and 4 feet bgs. PCE was detected at concentrations ranging from 0.88 mg/kg and 20 mg/kg. In addition, 1,1,1-TCA was detected at 2.2 mg/kg in soil boring B-13 from 1 to 2 feet bgs and 1,1,2-TCA was detected at 0.12 mg/kg in soil boring B-13 at 3 to 4 feet bgs. Trace

concentrations of the following chemicals were also detected during this early round of analysis:

- 1,1-Dichloroethene
- 1,1,2,2-Tetrachloroethane
- 1,2-Dichloroethane
- 1,2,3-Trichloropropane
- 2-Chloroethyl vinyl ether
- Benzene
- Ethyl benzene
- Toluene
- Tetrachloromethane
- Xylenes

In addition, the onsite groundwater well located at the north portion of the building was sampled as part of this initial investigation. No VOCs were detected in the groundwater sample collected.

Remedial Investigation at the Lockformer Company, Dated May 25, 1995

Between April and May of 1995, STS advanced 12 additional soil borings (B-5, B-101, B-104, B-105, B-106, B-120, B-121, B-122, B-123, B-124, B-125, and B-126). Two of the borings (B-104 and B-105) were advanced through the source area, where variable occurrences of groundwater were previously identified during STS's hand augering event, into what STS described in its soil borehole logs as bedrock. Six of the soil borings were converted to monitoring wells (MW-101, MW-104, MW-105, MW-120, MW-123, and MW-126). Soil borings B-5, B-124, and B-125 and monitoring well MW-126 are located on the west parcel. In addition to submitting samples to an analytical laboratory, a mobile laboratory was utilized at the site during this phase of investigation. Figure 4 identifies the locations of these soil borings.

Eight soil samples were submitted for laboratory VOC analysis. Based on the results of the analytical data, TCE concentrations ranged between non-detect to 960 mg/kg in the soil samples submitted for analysis. The highest concentration of TCE (960 mg/kg) was identified in the soil sample from B-105 / MW-105 at 15 to 17 feet bgs. TCE was identified from 35 to 37 feet bgs in MW-105 at 9.2 mg/kg. In addition, TCE was detected in the soil samples collected from MW-101 from 20 to 21.5 feet bgs (0.093 mg/kg), MW-104 from 42 to 44 feet bgs (1.0 mg/kg), and B-122 from 32.4 to 34.5 feet bgs (0.91 mg/kg).

No recommendations were provided in this report.

Additional Assessment of TCE Release, Dated February 14, 1997

This report documents the sampling of the groundwater monitoring wells installed and the additional advancement of three soil borings (B-201, B-202, and B-203) on the undeveloped west parcel (Figure 4).

Based on the analytical results from the monitoring wells, various VOCs were identified in MW-101; TCE was identified at 68 mg/L. In addition, TCE concentrations ranging between 0.00131 mg/L to 0.0059 mg/L were detected in the other monitoring wells sampled.

A Tier 2 calculation was mathematically derived by STS for a TCE soil remedial objective at the undeveloped west parcel. Based on STS's preliminary calculation, STS suggested that a NFR Letter (with land use restrictions) could be obtained from the IEPA without remediation.

STS recommended conducting additional soil contamination delineation for the east parcel via the use of passive soil gas probes and additional characterization of

groundwater contamination. In addition, it appears that at this time the east parcel had been entered into the IEPA's Voluntary Notice/Pre-Notice Site Cleanup Program.

Phase II Environmental Site Assessment, Dated March 4, 1997

This Phase II of Investigation further evaluated the potential for contamination on the undeveloped west parcel. In general, the report summarizes the analytical/geotechnical sampling results that had been conducted prior to that time. The following soil borings had been advanced at the site prior to this report: six geotechnical borings drilled in 1990 (B-1 to B-6); five soil borings drilled in 1995 (B-121 to B-126); and three soil borings drilled in December 1996 (B-201 to B-203). Soil boring B-126 was subsequently converted to a monitoring well (MW-126). Soil borings B-121 and B-122 were advanced on the Lockformer east parcel (Figure 4).

Soil samples collected from the initial soil borings B-1 to B-6 were analyzed for metals, polychlorinated biphenyls (PCBs), and VOCs. No chemicals were identified above laboratory detection limits. Soil samples collected from soil borings B-121 to B-126 and B-201 to B-203 were analyzed for VOCs. Trace concentrations of various VOCs were detected in each of the soil samples collected. TCE was detected in soil boring B-122 from 32.5 to 34.5 feet bgs at 0.910 mg/kg, and in soil boring B-125 from 10 to 12 feet bgs at 0.11 mg/kg and from 17.5 to 19.5 feet bgs at 0.10 mg/kg. In addition, TCE was identified in a groundwater sample collected from MW-126 at 0.0013 mg/L.
Based on site-specific information, Tier 2 soil cleanup levels were established for the west parcel. Using USEPA SSL equations, STS calculated a site-specific Tier 2 soil standard of 0.608 mg/kg for TCE.

Phase I Environmental Site Assessment for Undeveloped Land (West Parcel) by EASE, Dated April 1, 1997

Based on the conclusions of the Phase I, the following recognized environmental conditions were found in connection with the west parcel:

- TCE contamination has been documented at the Lockformer east parcel.
- Two leaking underground storage tanks (LUSTs) sites were identified within 0.5 miles of the property.
- One large-quantity RCRA generator is located on an adjacent property (Lockformer).
- One Solid Waste Landfill (SWL) is located within 0.5 miles of the property.

Based on the review of various STS reports, as also summarized by EASE, EASE concluded that, in its opinion, there was minimal evidence that TCE contamination had migrated from the Lockformer east parcel onto the west parcel and that the levels of TCE identified in the soil samples on the west parcel were below current remedial objectives. EASE reached the above conclusions from reviewing the March 4, 1997 Phase II report completed by STS. However, based on additional sampling that has since been conducted, TCE contamination is known to exist on the west parcel above the current remedial objectives.

Draft Focused Site Investigation/Remediation Objectives Report, Dated February 24, 1998

This report summarizes the investigations conducted at the Lockformer east and west parcels up to that time. In addition, an Endangerment Assessment and Tier 2 Evaluation was completed as part of the report.

Based on the investigations completed to this point, STS estimated the extent of TCE and other VOC contamination at the site. Based on their results, the following conclusions and recommendations were provided:

- TCE contamination was located in shallow fill soils (to a depth of 19 feet bgs) near the fill pipe resulting from the downward migration of TCE through fractured till.

  Recommendation - Source removal and treatment of the shallow soil located in the fill pipe area.

- TCE contamination had migrated downward and laterally to the northwest, south, and southwest to a sand layer impacting groundwater at a depth of approximately 56 feet bgs.

- The localized occurrence of groundwater at a depth of approximately 12 feet bgs near the fill pipe is impacted with various VOCs above Class I groundwater objectives. Degradation products were present in the groundwater, suggesting that PCE and TCE were currently undergoing dechlorination.

  Recommendation - Removal and treatment of contaminated perched groundwater; installation and maintenance of an engineered barrier that would cover the fill pipe source area; maintenance of the building concrete floor as an engineered barrier; restriction of land use to industrial/commercial; and prohibition of onsite drinking water wells.

2.3 CEI PREVIOUSLY SUBMITTED INVESTIGATION RESULTS AND DOCUMENTATION

The following reports and/or information prepared by CEI had been previously submitted to the IEPA SRP in connection with the TCE release and investigations at the subject site:

- *IEPA SRP DRM-1 and DRM-2 Forms and Shallow Soil and Ground Water Sampling Plan*, dated August 5, 1998.

- *Revised Proposal for Additional Task 2 Sampling Investigation Plan*, dated January 22, 1999.

- *Draft Investigation Results*, dated March 15, 1999.
- *Off-Site Piezometer Installation and Ground Water Flow Direction Results,* dated September 30, 1999. (This report was forwarded to IEPA on October 19, 1999.)
- *Additional Actions Required to Obtain an NFR Letter*, dated October 15, 1999.
- *Residential Well Sampling Results*, dated October 19, 1999.

Below is a brief description and summary of the investigation activities and results discussed in the above reports.

Shallow Soil and Ground Water Sampling Plan (Task 1), Dated August 5, 1998

This proposed investigation was intended to evaluate if any near-surface VOCs were migrating offsite by conducting the following:

- Trenching and soil sampling within site utilities to investigate potential migration pathways.
- Advance nine soil borings to a maximum depth of 25 feet, convert borings to shallow monitoring wells (MW-500S through MW-508S), and collection of soil and groundwater samples. These wells were installed to better define the nature of the variable occurrence of near surface groundwater; to evaluate the potential that impacted groundwater may be migrating offsite; and to determine if the proposed "deep" borings and wells that were to be installed during the next phase of the investigation (Task 2) would need to be double-cased in order to protect the lower aquifer from cross contamination.

Additional information regarding the Task 1 sampling was provided in Section 5.0 of this report.

Revised Proposal for Additional Task 2 Sampling Investigation Plan, Dated January 22, 1999 (Revised to Incorporate Results from Task 1)

On behalf of Lockformer, CEI submitted a revised proposal to conduct Task 2 sampling. In general, the following was proposed:

- Drilling of 22 additional soil borings
- Drilling and installation of nine groundwater monitoring wells
- 97 soil samples to be collected and analyzed for VOCs
- 17 groundwater samples to be collected and analyzed for VOCs
- 12 soil samples to be collected and analyzed for Total Organic Carbon Content (TOC).

Draft Investigation Results, Dated March 15, 1999

On behalf of Lockformer, CEI submitted the draft results of the Task 2 sampling investigation to the IEPA. Based on the draft results, summary figures and tables were completed showing soil and groundwater results above their respective most stringent Tier 1 objectives.

Off-Site Piezometer Installation and Ground Water Flow Direction Results, Dated September 30, 1999

In order to investigate the groundwater flow direction in an area south of the Lockformer property (i.e., south of St. Joseph's Creek), CEI installed three one-inch-diameter piezometers (P-1 through P-3). One piezometer was installed on Reidy Road, and two piezometers were installed on Front Street. These piezometers were installed at shallow depths between approximately 30 and 55 feet bgs.

Additional Actions Required to Obtain a NFR Letter, Dated October 15, 1999

On behalf of Lockformer, CEI forwarded a flow chart showing the additional actions that would be conducted in order to secure an NFR Letter. Based on the information, the following was to be conducted:

- Install piezometers south of St. Joseph's Creek (already conducted).
- Meet with Village of Lisle to discuss possible groundwater ordinance in restricted area.
- Investigate soil and groundwater delineation gaps.
- Complete R-26 calculations.
- Obtain groundwater ordinance from Village of Lisle.
- Complete necessary reports to IEPA.
- Construct engineered barriers.

The IEPA reviewed this information and forwarded an approval with the following comments:

- Any future NFR Letter will prohibit the use of the onsite (Lockformer) production water well.

- The IEPA strongly recommends that Lockformer not withdraw from the SRP.

Residential Well Sampling Results, Dated October 19, 1999

The following residential homes' drinking water wells (located immediately south/southeast of the east parcel) were sampled:

- Sampled on July 21 and 22, 1999
  515 Chicago Avenue
  4708 Elm Street
  631 Ogden Avenue (main home)

- Sampled on July 26, 1999
  631 Ogden Avenue (tenant home)

Based on the residential sampling results of the drinking water wells described above, VOCs above Class I groundwater objectives were not detected in the groundwater samples collected.

2.4 GENERAL GEOLOGY / HYDROGEOLOGY

The subject property is physiographically located within the Wheaton Morainal Country of the Great Lakes Section. Based on the *ISGS Circular 460 (Summary of the Geology of the Chicago Area - 1971)*, the uppermost surficial glacial deposits present at the site consist of undifferentiated Valparaiso deposits that include deposits from the Wadsworth and/or Haeger Members of the Wedron Formation (Figure 5). The Valparaiso includes a buried drift of questionable age, informally called the Lemont Drift, which consists of yellow-gray silty till, sand and gravel, and dune sand. The deposits are generally overlain by a thin Richland Loess or modern soil *(Illinois State Water Survey/Ground Water Resources of DuPage County, Illinois - Cooperative Ground Water Report 2 - 1962).*

Based on the *ISGS Circular 532 (Potential for Contamination of Shallow Aquifers in Illinois-1984)*, the subject site borders upon Cahokia Alluvium depicted as Ax deposits and/or C1 depicted deposits (Figure 6). The Cahokia Alluvium consists of unconsolidated, poorly-sorted sand, silt, or clay containing local deposits of sandy gravel. These modern deposits are generally found in floodplains of streams and rivers. The thickness of the alluvium is variable and may directly overlie Silurian Age bedrock consisting primarily of dolomite. C1 deposits consist of greater than 20 feet of glacial till (mainly pebbles and cobbles in a clay, silt, and sand matrix, deposited directly by glacial meltwater) and other fine-grained material of the Wisconsinan Glacial Stage. A thin layer of loess (windblown silt) and modern soil, ranging in thickness from 0 to 2 feet, may mantle the glacial deposits in this area.

The Paleozoic bedrock underlying the glacial deposits consists of about 3,500 feet of consolidated, stratified, sedimentary rocks of Cambrian, Ordovician, and Silurian ages. The formations dip gradually to the east and southeast at about 10 feet per mile and are folded into a series of gentle anticlines and synclines. The glacial deposits at the subject property rest upon a synclinal fold of Silurian-aged bedrock of the Niagaran Series (Figure 7). The Niagaran rocks range from clean dolomite to highly silty, argillaceous and cherty dolomite with some thin shale beds and may contain reefs locally *(Illinois State Water Survey / Ground Water Resources of DuPage County, Illinois - Cooperative Ground Water Report 2 - 1962).*

Based on the *Cooperative Ground Water Report 2*, on the basis of character and origin of the deposit, stratigraphic position, water-bearing properties and use, six principal geohydrologic units have been recognized in the geological material beneath DuPage County. From top to bottom they are as follows:

- Glacial drift aquifers
- Silurian dolomitic aquifer
- Confining beds of the Maquoketa Formation
- Cambrian-Ordovician aquifer
- Confining beds of the Eau Claire Formation
- Mt. Simon aquifer

Together, the glacial drift aquifers and Silurian dolomite comprise the upper aquifer system in the region. This system is hydraulically separated from the lower aquifer systems by confining beds of the Maquoketa Formation (shale). The glacial drift aquifers are the saturated, relatively clean, coarse-textured, glaciofluvial deposits of sand and gravel that occur erratically throughout the glacial drift. The occurrence of glacial drift aquifers is extremely irregular, and their character and distribution range widely.

The Silurian dolomite aquifer is made up of the rocks of the Niagaran and Alexandrian Series of Silurian age that lie directly beneath the glacial drift. Groundwater in the

Silurian dolomite aquifer is stored in openings in the dolomite and moves through a complex network of interconnected openings. Most of the openings in the dolomite are secondary in origin and were formed after the deposition and consolidation of the rocks. The upper part of the dolomite aquifer is generally a zone of high permeability and a major water-yielding zone that is usually the most productive part of the aquifer.

2.5 SITE-SPECIFIC CHARACTERISTICS

2.5.1 Site-Specific Topography

In general, the west parcel is higher in elevation than the east parcel. A review of Figure 3 indicates that both parcels slope to the south/southwest. The eastern portion of the east parcel slopes east. A lower-lying (ditch) right-of-way is located at the western edge of the east parcel and the eastern edge of the west parcel. Based on the topographic map, elevations on the east parcel range from approximately 714 feet above mean sea level (msl) adjacent to Ogden Avenue to approximately 700 feet above msl at the most southwestern portion of the parcel. Based on the topographic map, elevations on the west parcel range from approximately 714 feet above msl adjacent to Ogden Avenue to approximately 684 feet above msl at the southern portion of the parcel.

The elevation of the Northern Builders property to the west of the west parcel is approximately 20 to 30 feet lower in elevation than the west parcel. This property has been developed since the aerial photograph was taken and presented in Figure 3. Two long, single-story multi-purpose buildings exist on that property. A stormwater retention basin is located at the southern end of the Northern Builders property. It is likely that the existing grade on the Northern Builders property is approximately the original grade of the west parcel prior to its having received extensive fill. According to Lockformer personnel, filling operations took place over the entirety of the Lockformer property during the reconstruction of Ogden Avenue in the 1960s.

2.5.2 Site Geology

The Lockformer facility has been investigated through the drilling of 82 borings and installation of 30 monitoring wells. The logs for CEI (Tasks 1 through 5) borings and monitoring wells are included in this report as Appendix E. The location of all the soil borings and monitoring wells at the site are presented on Figure 4.

Figure 8 is a plan view map of the site that provides reference for cross-sections developed through the area of investigation. Figure 9A illustrates cross-section A-B; Figure 9B illustrates cross-section C-D; Figure 9C illustrates cross-section E-F; Figure 9D illustrates cross-section G-H; and Figure 9E illustrates cross-section C-H. These cross-sections illustrate the variability of the lithologies across the site and general groundwater occurrence.

A review of these cross-sections indicates a general sequence of lithologies from surface grade to bedrock that can be characterized as follows:

1. Cohesive, silty clay glacial till and fill from surface grade to an elevation of approximately 680 to 690 feet above msl.

2. Glaciofluvial sand and gravel that contains variable amounts of silt and clay. This glaciofluvial deposit can be distinguished readily by its high percentage of carbonate, sand, and gravel clasts. It is typically very poorly sorted, and grades to finer-grained sand and silt toward the base of the deposit at some locations. The elevation of the base of this glaciofluvial sand and gravel is highly variable across the site. Groundwater variably saturates the base of this glaciofluvial deposit across the site to form a water table condition.

3. Cohesive, silty clay glacial till that exhibits an irregular surface underlies the glaciofluvial deposit over most of the investigation area. The irregular nature of this till surface appears to influence the occurrence and migration of groundwater in the glaciofluvial sediments. At two locations within the study area (wells MW-521 and MW-126), this lower glacial till deposit does not exist, and the

coarse-grained glaciofluvial deposits are in direct contact with the bedrock surface below.

4. Niagaran Series dolomite bedrock of Silurian period age underlies the glacial till and/or glaciofluvial deposits at the site. The dolomitic bedrock occurrence has not been extensively characterized at the site. Three borings have encountered it: MW-126, MW-520, and MW-521. The surface of the bedrock was encountered between 635 and 640 feet msl in those three locations.

Based on a review of the STS logs and reports and the soil borings performed by CEI, the unconsolidated deposits above bedrock can generally be characterized as consisting of mixed fill materials to depths as great as 17.5 feet bgs on the east parcel and from 5 to 20 feet bgs on the west parcel. The fill is significantly thicker on the west parcel due to the filling operations in the 1960s. The fill materials generally grade to a native, very stiff, brown/gray mottled silty clay till with trace amounts of sand and gravel which then grade to a slightly moist, gray silty clay at depths ranging from 7 to 22.5 feet bgs. The gray color change and decreased mottling indicates a change from weathered to relatively unweathered till deposits. At greater depths, a very dense, poorly sorted, glaciofluvial sand and gravel containing silt, clay, and limestone fragments is encountered. This glaciofluvial deposit is typically dry and first encountered at depths ranging from 15 to 30 feet bgs.

According to the STS reports and soil logs, bedrock was encountered at approximately 37.5 feet and 44.5 feet bgs while drilling wells MW-105 and MW-104, respectively. Both of these wells are located in the source area where perched water was previously identified. However, based on all other sampling data, it is highly unlikely that these borings encountered bedrock. Instead, auger refusal was probably the result of encountering cobbles within the glaciofluvial sand and gravel. These wells are located immediately west of the facility building (Figure 4). Bedrock was not encountered by CEI or STS during other sampling activities in the vicinity of MW-104 and MW-105 while drilling monitoring wells MW-401, MW-120, and MW-403. These wells were

completed to depths of 55 feet, 57.5 feet, and 60 feet, respectively. Cross-section A-B on Figure 9A illustrates the expected sequence of lithologies throughout this area of the site.

2.5.3 Hydrogeology

The cross-sections appearing on Figures 9A, 9B, 9C, 9D, and 9E illustrate the static water levels acquired from the site monitoring wells on December 19, 2000. Table 2 provides a summary of the static water level measurements from groundwater monitoring wells at the site to date. A review of the cross-sections indicates a variable occurrence of groundwater in both the shallow glacial till and in the lower glaciofluvial sediments.

In general, the static water level measurements from the shallow wells completed in the upper glacial till have indicated a variable nature of groundwater occurrence in these sediments. Some wells installed in the shallow glacial till have consistently exhibited saturated conditions, while others have consistently been dry. The occurrence of saturated or unsaturated conditions in these wells is primarily due to the nature of the well installations themselves. Most wells completed entirely within the silty clay, upper glacial till consistently exhibit saturated conditions. These wells include MW-101, MW-123, and MW-502S. Only one well, MW-501S, is completed entirely in the upper glacial till sediments and has generally exhibited dry conditions. It is likely that the well screen of this well, MW-501S, is completed very close to the top of the glaciofluvial sediments and may account for this lack of saturation (see Figure 9C). Several of the other wells located onsite that are considered shallow actually are completed across both the upper glacial till and the glaciofluvial sediments. These wells have been dry since their installation, and include MW-105, MW-500S, MW-504S, MW-505S, MW-507S, and MW-508S.

The three shallow wells that have consistently exhibited saturated conditions (MW-101, MW-123, and MW-502S) are not likely to be useful in defining groundwater flow

conditions in the upper glacial till. It is likely that these wells are completed within lithologies that exhibit hydraulic conductivities less than $1x10^{-5}$ cm/sec, and are therefore incapable of equilibrating to the temporally variable hydrostatic head within the upper till. It is likely that the predominant flow within the upper glacial till is downward to provide to recharge the glaciofluvial sediments.

The occurrence of groundwater within the glaciofluvial sediments at the site can generally be observed through the review of the cross-sections on Figures 9A, 9B, 9C, 9D, and 9E. A review of the cross-sections indicates that the lower glacial till surface is highly irregular. As a result, saturated water table conditions at the base of the glaciofluvial sediments on December 19, 2000 (the static water level elevations exhibited on these cross-sections) occurred only in the vicinity of wells MW-504D, MW-516D, MW-520, MW-521, and MW-522. These wells indicate that the water table occurrence in the vicinity of these wells in ranged from 655.42 to 653.67. An analysis of cross-section C-H on Figure 9E indicates that wells MW-518 and MW-519 were completed in the saturated sediments in the lower glaciofluvial sediments and would have provided good, additional spatial data for groundwater flow in that unit had they not been abandoned.

At other locations within the area of investigation, the lower glacial till surface rises above the water table occurrence on the December 19, 2000 measurement date and appears to result in unsaturated conditions in those wells completed in the glaciofluvial sediments. Interestingly, well MW-500D exhibits a static water level measurement of 655.36 on this date. A review of cross-section E-F on Figure 9C indicates that well MW-500D is completed in a depression on the till surface that rises up in the south central portion of the site. It appears that the groundwater occurrence in this depression at MW-500D is isolated from the general water table occurrence exhibited by wells MW-504D, MW-516D, MW-520, MW-521, and MW-522. A review of Table 2 indicates that the static water level in well MW-500D has generally been significantly higher than the static water level exhibited by these other wells. Contaminant occurrence

of TCE in these monitoring wells tends to corroborate these observations. Elevated concentrations of TCE appear to have leaked down from the source area to this groundwater occurring in the depression on the basal till surface that exists above the water table in the vicinity of MW-500D Monitoring wells MW-516D, MW-517D, MW-126, MW-518D, MW-520, and MW-521 exhibit substantially reduced concentrations of TCE (with several exhibiting concentration at or below the MCL) compared to MW-500D indicating a lack of direct hydraulic connection. As might be expected, the two wells closest to MW-500D (MW-517D and MW-516D) have indicated the most elevated TCE concentrations downgradient of this area.

The observations outlined above provided the basis for developing potentiometric surface maps of the groundwater occurrence in the glaciofluvial sediments. Potentiometric surface maps from static water level measurements taken in November 2000, December 2000, and January 2001 appear as Figures 10, 11, and 12, respectively. Additionally, Figure 13 presents groundwater contours for the glaciofluvial sediments that reflect the approximate hydrostatic head measurements from the wells installed as of December 1999. Analysis of the static water level measurements from this date allows the inclusion of monitoring wells MW-518 and MW-519 that were subsequently abandoned due to development on the south side of the east parcel.

Collectively, Figures 10, 11, 12, and 13 indicate that groundwater in the glaciofluvial sediments at the site flows to the west, southwest, and south. On two of the three measurement dates unexpectedly elevated hydrostatic levels have been observed in monitoring well MW-521. The well screen from this well is partially completed in the Silurian dolomite. The database for the site is currently insufficient to determine if water levels in the Silurian dolomite fluctuate independently from the glaciofluvial sediments at the site.

CEI performed in situ hydraulic conductivity tests (slug tests) on monitoring wells MW-500D, MW-504D, and MW-516D. Monitoring wells MW-504D and MW-516D have well screens completed across the saturated sediments in the lower glaciofluvial sand and gravel. The hydraulic conductivity testing of these two wells indicates values of 3.3×10^{-3} cm/sec and 1.1×10^{-3} cm/sec. These values appear to be consistent with the lithologies observed. The slug test results are provided in Appendix B.

Investigation of groundwater in the Silurian dolomite bedrock in the vicinity of the site has been limited. Three monitoring wells on site have encountered the bedrock MW-126, MW-520 and MW-521. Additionally, Lockformer has a production well on site (see Figure 2). Details regarding the construction of the on site Lockformer well are still under investigation.

In addition to the three on site groundwater monitoring wells that have encountered bedrock, three wells were drilled and installed in the Silurian dolomite on Front Street and Riedy Road in the residential area south of St. Joseph Creek. The location of these three wells can be observed on Figure 2. The wells are identified as BW-1, BW-2 and BW-3.

Shallow groundwater piezometers were completed in the glacial drift immediately adjacent to bedrock wells BW-1, BW-2 and BW-3 to form well nests. These piezometers are identified as wells P-1, P-2 and P-3 and appear on Figure 2 also. Piezometer P-1 was completed in the upland glacial till that exists along Riedy Road. Piezometers P-2 and P-3 were completed in sand apparently associated with the Mackinaw Member of the Henry Formation (see Figure 5). Since these three piezometers are not completed in the same hydrostratigraphic unit, a groundwater flow direction determination is not available.

Static water level measurements have been acquired on two occasions since installation of wells BW-1, BW-2 and BW-3. The static water levels recorded during the

December 19, 2000 and January 11, 2001 measurements appear in Table 2. The December 19, 2000 measurement event indicates a southeast groundwater flow direction in the bedrock with an approximate hydraulic gradient of 0.0009. The January 11, 2001 measurement event indicates a northern groundwater flow direction in the bedrock with an approximate hydraulic gradient of 0.57.

2.6 WATER WELL RECORDS AND LOGS / DRINKING WATER USAGE

In order to evaluate whether residential homes are using drinking water wells, well logs were obtained from the ISGS and ISWS for Sections 2, 10, 11, 12, and 14 in Township 38 North, Range 10 East. Copies of the plottable well logs from Sections 2 and 11 are included in Appendix C. In addition, a Freedom of Information Act (FOIA) request was submitted to the Village of Lisle for drinking water/well information. A copy of this information is also provided in Appendix C. A significant number of residential homes in the area rely on water wells to supply their residential water supply. Currently, Lockformer is trying to coordinate information with IEPA on the exact addresses of water well usage. A number of well logs were acquired but could not be correlated with a specific address. These logs are not included in Appendix C.

Figure 14 presents the known wells used by residents in the area and the residences for which a well log is available. Based on the review of the available well records, many of the homes with residential wells may not have a corresponding well log on record with the ISGS or ISWS. A significant number of well logs were acquired but could not be matched with a specific address or parcel description and as such could not be plotted on Figure 14. Table 3 summarizes the plottable well information available by various sources.

Many of these homes' wells have been sampled on behalf of Lockformer by CEI, representatives of the Village of Lisle, IEPA representatives, or other third parties. Based on the limited analytical data obtained from such sampling efforts, concentrations of VOCs above Class I drinking water objectives have been reported.

3.0 REMEDIAL OBJECTIVES

In order to delineate the soil and groundwater contamination at Lockformer, all analytical results were compared to the most stringent Tier 1 Remedial Objectives for industrial/commercial properties with Class I groundwater in accordance with Tiered Approach to Corrective Action Objectives (TACO, 35 IAC 742). Tier 2 remedial objectives may be applicable and used upon further evaluation and contaminant delineation at the site. TACO establishes acceptable soil and groundwater concentrations using a risk-based approach to provide protection of human health and the environment. TACO recognizes three soil exposure pathways: inhalation, ingestion, and migration to groundwater. The migration to Class I groundwater pathway is the most conservative soil remedial objective for the volatile chemicals of concern at Lockformer when using a Tier 1 analysis. In addition, commercial/industrial exposure scenarios are appropriate for this site, based on existing and future land use.

A more comprehensive development/analysis of the site-specific remedial objectives will be conducted in the Remedial Objectives Report.

3.1 SOIL

The most conservative of the Tier 1 ingestion and inhalation remediation objectives for both the industrial/commercial and construction worker scenarios were applied as the site-specific soil remediation objectives (TACO, Appendix B, Table B). The following table shows the applicable soil remedial objectives for the chemical parameters identified at Lockformer above these specific objectives.

SUMMARY OF TIER 1 SOIL REMEDIAL OBJECTIVES					
Chemical Name	Exposure Route-Specific Values for Soil (mg/kg)				Soil Component of GW Ingestion Exp. Route
	Industrial / Commercial		Construction Worker		Class I (mg/kg)
	Ingestion	Inhalation	Ingestion	Inhalation	
Tetrachloroethene	110	20	2,400	28	0.06
Trichloroethene	520	8.9	1,200	12	0.06
1,1,1-trichloroethane	-----	1,200	-----	1,200	2.0
1,1,2-trichloroethene	8,200	1,600	200,000	10	0.02
Vinyl Chloride	3	0.06	65	0.08	0.01

In addition, concentrations of the following chemicals were identified during soil investigations; however, Tier 1 soil remedial objectives have not been established in TACO.

- 2-Butanone
- 2-Chloroethyl vinyl ether
- Total 1,2-dichloroethene
- Tetrachloromethane
- 1,1,2,2-Tetrachloroethane
- 1,2,3-Trichloropropane

3.2 GROUNDWATER

Class I and II groundwater are defined according to criteria set forth in Part 620 of the 35 Illinois Administrative Code. Based on site investigations conducted thus far at Lockformer, groundwater occurs in the shallow glacial till/fill and in the saturated sediments at the base of the glaciofluvial sand and gravel. The contaminant concentrations identified during the investigations are compared to Class I remedial objectives (TACO, Appendix B, Table E). The following table shows the applicable groundwater remedial objectives for the chemical parameters identified at Lockformer above these specific objectives. However, it is undetermined at this time if the

groundwater occurrence in the shallow glacial till/fill should be classified as Class I groundwater.

SUMMARY OF TIER 1 GROUNDWATER REMEDIAL OBJECTIVES	
Chemical Name	**Groundwater Remedial Objectives Class I (mg/L)**
Benzene	0.005
Chloroform	0.00002
1,2-dichloroethane (1,2-DCA)	0.005
1,1-dichloroethene (1,2-DCE)	0.007
cis-1,2-dichloroethene (cis-1,2)	0.07
trans-1,2-dichloroethene (trans-1,2)	0.1
Methylene chloride (MC)	0.005
Tetrachloroethene (PCE)	0.005
1,1,1-trichloroethane (1,1,1-TCA)	0.2
1,1,2-trichloroethane (1,1,2-TCA)	0.005
Trichloroethene (TCE)	0.005
Vinyl Chloride (VC)	0.002

4.0 TIER 2 REMEDIAL OBJECTIVE EVALUATION

At this time, analytical results from the soil and groundwater will be compared to Tier 1 remedial objectives. Tier 2 remedial objectives may be appropriate upon further evaluation and contaminant delineation at the site.

5.0 CEI SITE-SPECIFIC SAMPLING PLAN

5.1 SITE INVESTIGATION FIELD ACTIVITIES

The onsite and offsite sampling activities conducted by CEI can be divided into five main tasks, as generally described below. Copies of laboratory reports, boring logs, and well logs are included as Appendices D, E, and F, respectively.

Task 1

As part of an initial task (Task 1), field sampling was conducted from August 18, 1998 to November 25, 1998 under the supervision of Lisa Meagher, George Varela, and Jeff Voelker of CEI. Twelve soil samples (TS-1 through TS-12) were collected from trenches, and 13 soil borings were advanced (SB-500 through SB-512); nine of these borings were subsequently converted to shallow monitoring wells (MW-500S through MW-508S).

Task 2

On January 22, 1999, CEI submitted a work plan to the IEPA SRP for approval to conduct soil and groundwater sampling at the subject site (Task 2). The plan was approved by the IEPA, as documented in a letter dated January 27, 1999. Task 2 activities began on February 1, 1999 under the supervision of Lisa Meagher and George Varela. These activities included the advancement of 23 additional soil borings (SB-600 through SB-622) and the installation of nine monitoring wells (MW-500D, MW-501D, MW-504D, MW-508D, and MW-513D through MW-517D). A total of 130 soil and groundwater samples were collected and analyzed for VOCs.

Task 3

In order to evaluate soil conditions between the Lockformer east parcel and the west parcel, three soil borings (SB-623 through SB-625) were advanced, and eight soil

samples were collected. This sampling was conducted on August 30, 1999 under the supervision of Lisa Meagher and George Varela.

Task 4 (Offsite Sampling)

Sampling was also conducted on December 7 and 8, 1999 offsite at the Bill Kay property immediately south of the Lockformer east parcel. This sampling was conducted under the supervision of Lisa Meagher and George Varela to evaluate whether soil and/or groundwater contamination exists on this parcel. Three shallow soil borings (SB-700 through SB-702) were advanced, and two groundwater monitoring wells (MW-518D and MW-519D) were installed with the collection of nine soil samples and two groundwater samples.

Task 5

Additional onsite soil and groundwater sampling was conducted by CEI on November 10 through November 17, 2000 to further delineate the vertical and horizontal extent of soil and groundwater contamination. This sampling was conducted under the supervision of Lisa Meagher and George Varela. Task 5 included the advancement of 12 additional soil borings (SB-800 through SB-808, SB-520, SB-521, and SB-522) with the conversion of three of the soil borings to monitoring wells (MW-520, MW-521, and MW-522). A total of 52 soil samples were collected, and 19 groundwater samples were collected from all onsite monitoring wells, including the three newly installed monitoring wells.

The discussions below provide site-specific task and/or investigation information.

5.1.1 Task 1 / Soil Trenching

Soil trenching activities were completed to evaluate near-surface contamination potentially migrating offsite via the underground utility lines. See Figure 15 for the location of onsite utilities. This was completed by trenching along and beneath the site

utilities at various locations (Figure 16). The trenches were dug using a track-mounted backhoe (Alessio & Sons of Rockdale, Illinois). Twelve soil samples (TS-1 through TS-12) were collected. Samples were analyzed at Sima Laboratories International (Sima) of Merrillville, Indiana. Analytical reports are included in Appendix D. Table 4 shows a summary of the photoionization (PID) results. Table 9 shows a summary of the analytical data.

5.1.2 Task 1 / Shallow Soil Borings / Shallow Monitoring Well Installation

Subsequent to the trenching activities, CEI emplaced nine soil borings (SB-500 through SB-508) to a maximum depth of approximately 25 feet bgs. The soil borings were subsequently converted to shallow groundwater monitoring wells (MW-500S through MW-508S). The "S" designation after each well identification represents "shallow." Soil samples were collected and analyzed to evaluate the potential for shallow groundwater contamination. In addition, the monitoring wells were installed to confirm that shallow groundwater is limited to the area in the vicinity of the subject building and to evaluate whether "deeper" borings and/or wells would need to be double-cased to protect the lower groundwater from potential contamination migrating downward from the upper groundwater condition.

Drilling services for the Task 1 soil borings/monitoring wells were supplied by Mid-America Drilling Services, Inc. (Mid-America) of Elburn, Illinois. Samples were analyzed at Sima.

Nine soil samples (one from each soil boring) were collected from soil borings SB-500 through SB-508 and analyzed for VOCs. Only one shallow monitoring well installed produced groundwater (MW-502S). A groundwater sample was collected from monitoring well MW-502S and analyzed for VOCs.

Four additional soil borings were emplaced and sampled to evaluate the extent of potential soil contamination near STS soil boring B-125. The location of B-125 and the four additional borings (SB-510 through SB-512) are identified on Figure 4. Six soil samples were collected and analyzed for VOCs from these four soil borings.

Section 5.5.2 below provides the analytical summary of these Task 1 investigations. Figure 4 provides the soil boring locations. Table 5 shows a summary of the PID results. Tables 10 and 19 provide a summary of the soil analytical data. Tables 15 and 20 provide a summary of the groundwater analytical data.

5.1.3 Task 2 / Soil Borings / Monitoring Well Installation

CEI emplaced 23 soil borings (SB-600 through SB-622) to a maximum depth of approximately 54 feet bgs. In addition, nine monitoring wells were installed to a maximum depth of 62 feet bgs (MW-500D, MW-501D, MW-504D, MW-508D, and MW-513 D through MW-517D). The "D" designation after each well identification represents "deep." Wells MW-500D, MW-501D, MW-504D, and MW-508D are wells that have been placed immediately adjacent to its shallow counterpart (i.e., MW-500S, MW-501S, MW-504S, and MW-508S). A total of 130 soil and groundwater samples were collected and analyzed for VOCs to better delineate the vertical and horizontal extent of soil and groundwater contamination identified during earlier investigations.

Drilling services for the Task 2 soil borings/monitoring wells were supplied by Mid-America. Samples were analyzed at EnChem, Inc. (EnChem) of Green Bay, Wisconsin.

Refer to Section 5.5.3 below for the analytical summary of these Task 2 investigations. Refer to Figure 4 for the soil boring locations. Table 6 shows the PID results. Tables 11

and 19 show a soil summary of the analytical data. Tables 16 and 20 show a groundwater summary of the analytical data.

5.1.4 Task 3 / Soil Borings

CEI emplaced three additional soil borings (SB-623 through SB-625) to a maximum depth of 16 feet bgs. These soil borings were advanced to evaluate whether concentrations of VOCs greater than TACO ingestion and inhalation objectives within the top 10 feet have migrated from the east parcel to the west parcel. Eight soil samples were collected and analyzed for VOCs.

Drilling services for the Task 3 soil borings were supplied by Mid-America, and samples were analyzed at EnChem.

Refer to Section 5.5.4 below for the analytical summary of these Task 3 investigations. Refer to Figure 4 for the soil boring locations. Table 7 shows the PID results. Tables 12 and 19 show a summary of the soil analytical data.

5.1.5 Task 4 / Offsite Sampling

CEI emplaced three additional soil borings (SB-700 through SB-702) to a maximum depth of 6 feet bgs and two monitoring wells (MW-518D and MW-519D) to a maximum depth of 54 feet bgs on the property south of the Lockformer east parcel. A request was made to Lockformer by Bill Kay Chevrolet to evaluate whether VOC soil contamination exists offsite to the south. The two groundwater monitoring wells were installed, and groundwater samples were collected and analyzed for VOCs to better define the extent of VOC groundwater contamination that exists on the Lockformer property. A copy of this report is included as Appendix G.

Drilling services were supplied by Mid-America. Laboratory services were provided by EnChem. Eight soil samples were collected and analyzed for VOCs.

The boring logs in Appendix G show the PID results. Tables 13 and 19 show a summary of the soil analytical data. Tables 17 and 20 show a groundwater summary of the analytical data. Soil borehole logs, monitoring well construction diagrams, and laboratory reports are included in this report, which is provided as Appendix G.

5.1.6 Task 5 / Soil Borings / Monitoring Well Installation

CEI emplaced 12 additional soil borings (SB-800 through SB-808 and SB-520 through SB-522) to a maximum depth of 65 feet bgs. Three of the soil borings were subsequently converted to monitoring wells (MW-520 through MW-522). These soil borings were advanced and monitoring wells installed to further evaluate the migratory extent of VOCs above TACO objectives in the soil and groundwater. A total of 52 soil samples and 19 groundwater samples were collected and analyzed for VOCs. Soil samples were preserved in the field using Field Preparation Method 5035 during the Task 5 investigations. The Method 5035 requires methanol preservation.

Drilling services were supplied by Mid-America, and laboratory services were provided by EnChem.

Refer to Section 5.5.5 below for the analytical summary of these Task 5 investigations. Refer to Figure 4 for the soil boring locations. Table 8 shows the PID results. Tables 14 and 19 show a soil summary of the analytical data. Tables 18 and 20 provide a summary of groundwater analytical data.

5.2 SAMPLING PROCEDURES

In general, all sample collection and handling procedures were conducted according to standard protocols and requirements. All equipment and materials used for sampling were properly decontaminated, prior to use and between sampling locations, by washing in an Alconox solution and rinsing with distilled water. The samples were immediately placed in laboratory-supplied, clean glass laboratory jars or vials with Teflon-lined lids or septa. The samples were maintained at a temperature of approximately 4° C pending laboratory analysis. CEI sampling protocols, including chain-of-custody procedures, were followed.

5.2.1 Soil Trenching

The soil samples from the trench locations along the site utility lines were collected from beneath the utility lines using a decontaminated stainless steel trowel. Twelve soil samples were collected from trenching activities (TS-1 through TS-12) and analyzed for VOCs. Site-specific trench sampling information is included in the table below. CEI personnel reported that, with the exception of TS-5, odors were not apparent in the trench soil samples collected.

SUMMARY OF TRENCH SOIL SAMPLE DESCRIPTIONS				
Trench Sample ID	**Depth of Sample (ft bgs)**	**Utility Description**	**PID Reading (Units)**	**Sample Description**
TS-1	5	Storm	16.1	Brn/gry silty clay; trace sand; moist
TS-2	8.5	Sanitary	12.4	Brn/blk silty clay; with gravel, moist
TS-3	7	Storm	22.6	Gry silty clay; soft; wet
TS-4	6.5	Sanitary	21.0	Brn/gry silty clay with blk streaks; wet
TS-5	6.5	Water line	111.8	Brn/gry silty clay; moist; sticky; odor
TS-6	4.5	Sanitary	66.4	Brn/gray sandy clay; slightly moist
TS-7	6.5	Water line	33.5	Brn coarse sand and fine gravel; with clay; wet
TS-8	6	Storm	30.7	Light brn well-graded sand; wet

SUMMARY OF TRENCH SOIL SAMPLE DESCRIPTIONS				
Trench Sample ID	**Depth of Sample (ft bgs)**	**Utility Description**	**PID Reading (Units)**	**Sample Description**
TS-9	4	Electric	2.6	Brn/gry silty clay; with gravel; dry
TS-10	3.5	Gas	3.5	Brn/gry silty clay; with gravel; dry
TS-11	4.75	Electric	26.6	Blk/brn silty clay; with brick; moist
TS-12	4.75	Gas	6.7	Blk/brn silty clay; with brick; moist

5.2.2 Soil Borings / Soil Sampling

The soil borings were emplaced using a drill rig equipped with hollow stem augers, or using a Geoprobe® Macro Core Soil Sampling System using a track-mounted Geoprobe® Model 6600 and GH-60 hammer, or a combination of the two pieces of equipment.

Drill Rig

Soil samples were collected with a decontaminated 24-inch steel split spoon sampler per ASTM methods. Between each borehole and sample, the augers were steam-cleaned, and the split-spoon sampler was cleaned with an Alconox soap solution followed by a distilled water rinse. Soil samples were collected at discreet sampling depths where soil contamination was anticipated to exist and/or to delineate whether soil contamination exists at specific depths.

GeoProbe

The soil samples were collected from each boring using a 48-inch steel sampling tube lined with cellulose acetate butyrate (CAB) sampling sleeves. The soil borings were continuously sampled and the soil retrieved from the 4-foot sampling sleeve. The Geoprobe soil sample interval was generally divided into two samples, each corresponding to a 2-foot sample interval. Between each borehole and sample, the steel

sampling tube was cleaned with an Alconox soap solution followed by a distilled water rinse.

Sampling Methodology

Samples from any one borehole were assigned alphanumeric identification numbers based on the borehole number, and then on the depth of the sample collected. The shallowest sample was given the letter "A," the next "B," etc. (e.g., SB-500A, SB-500B).

Soil Cuttings / Investigative-Derived Wastes

Excess soil auger cuttings were collected and placed in 55-gallon drums and left onsite pending disposal arrangements. Each corresponding soil borehole was filled via a tremie grout method to grade with a bentonite slurry grout mixture (Quick Grout). The boreholes created by the GeoProbe were filled with bentonite pellets. Any borings emplaced through asphalt or concrete paving were topped with cement or asphalt.

5.2.3 Monitoring Well Installation / Groundwater Sampling

In general, monitoring wells were constructed using Schedule-40 PVC risers and 10 feet of stainless steel number 10 slotted screen. However, 10-foot PVC screens were used at monitoring well locations MW-520 through MW-522. Quartz sand was placed around the screen to an elevation 2 feet above the screen. A bentonite seal was placed above the quartz sand to provide an impermeable seal in the borehole. A bentonite slurry grout mixture (Quick Grout) was placed above the seal. In order to secure the wells, a locking flush-mounted steel well protector or stickup well box was cemented around the top of each well.

The monitoring wells were developed upon installation. The purpose of the well development procedure is to purge all sand, silt, and clay particles from the monitoring well to promote accurate sample analysis and proper infiltration of groundwater. The

wells were developed using a surge/pump procedure. Each well was pumped dry a minimum of three times and/or pumped until at least three borehole volumes of water were removed.

At least 48 hours after the development of the wells, groundwater samples were collected using a decontaminated stainless steel bailer or a disposable bailer. Groundwater samples were placed into clean glass 40-milliliter vials containing hydrochloric acid.

Sampling Methodology

The groundwater samples were assigned the alphanumeric identification number corresponding to the soil boring/monitoring well identification given to the well at the time of installation (e.g., sample MW-401 corresponds to groundwater sample collected from monitoring well MW-401).

5.3 FIELD PROCEDURES AND RESULTS

Field screening of soil samples was conducted using a MiniRAE® photoionization detector standardized versus isobutylene reference gas (100 ppm). PID concentrations were used to log possible volatile organic contamination and assist personnel in selecting suitable samples for analytical verification. The PID is an effective device for identifying areas where VOCs may exist. However, it does not identify specific compounds or their concentrations. Initial results from the PID screening program and field observations for the trench samples are summarized in Section 5.2.1 above. Tables 4 through 8 summarize the PID screening results from the soil borings. PID readings were collected from Zip-loc® bagged soil samples. Individual soil boring logs also show PID readings at corresponding depths (Appendix E).

5.3.1 Task 1 / Trench PID Results

PID readings ranged from 2.6 units to 111.8 units (Table 4). The highest reading was identified in trench sample TS-5, which was located immediately south of the assumed spill area (Section 5.2.1 and Figure 16).

5.3.2 Task 1 PID Results

As summarized in Table 5, PID readings ranged from 0 units to 77.4 units. The highest readings were identified in soil boring SB-509 from approximately 11 to 17 feet bgs. Refer to the soil boring logs in Appendix E.

5.3.3 Task 2 PID Results

As summarized in Table 6, PID readings collected from borings SB-600 through SB-622 ranged from 0 units to 2,000+ units. The highest readings were identified in soil boring SB-604 throughout the length of the boring to 20 feet bgs. In addition, readings above 100 units were detected in soil borings SB-603 from 6 to 18 feet bgs, SB-605 from 43 to 45 feet, SB-607 from 2 to 4 feet, SB-608 from 4 to 6 feet bgs and 12 to 14 feet bgs, and SB-610 from 0 to 2 feet bgs. PID readings above 100 units were not detected in the samples collected from soil boring/monitoring well locations MW-500D, MW-501D, MW-504D, MW-508D, and MW-513D through MW-517D (Table 5). However, the highest readings were detected in MW-500D from 35 to 37 feet at 26.7 units and MW-515D from 35 to 37 feet at 24.9 units.

5.3.4 Task 3 PID Results

As summarized in Table 7, PID concentrations ranged from 4 units to 710 units. The highest readings were identified in soil boring SB-623 throughout the length of the boring.

5.3.5 Task 4 / Offsite PID Results

As summarized in the report included in Appendix G, no elevated PID readings were detected in any of the soil samples collected. In addition, visual signs of contamination and/or odor were not observed in any of the soil and groundwater samples collected.

5.3.6 Task 5 PID Results

As summarized in Table 8, PID readings from the samples collected ranged from 0 units to 62 units. The highest readings were identified in soil boring SB-801 from approximately 28 to 30 feet bgs. PID readings above 20 units were also detected in soil boring SB-801 from 45 to 47 feet bgs, SB-805 from 16 to 18 feet bgs, and MW-520 from 4 to 6 feet bgs.

5.4 ANALYTICAL PROCEDURES

All soil and groundwater samples from the investigation activities (Task 1 through Task 4) were analyzed for VOCs using Method SW 8260A. Soil samples from Task 5 investigation activities were also field preserved using Method 5035 and analyzed for VOCs using Method SW 8260B. Copies of analytical results and standard chain-of-custody forms are included in Appendix D.

5.5 ANALYTICAL RESULTS

TACO was used to evaluate the laboratory soil and groundwater results of this investigation. This methodology applies a risk-based approach to soil and groundwater remediation objectives that are protective of human health and the environment. Refer to Section 3.0 above.

All laboratory soil results were compared to the most stringent of the Tier 1 remediation objectives provided for industrial/commercial properties with Class I groundwater. These objectives are listed in Appendix B, Table B of TACO.

The laboratory groundwater results were compared to the Tier 1 Groundwater Remediation Objectives for Class I groundwater. These objectives are listed in Appendix B, Table E of TACO.

Copies of the analytical data are provided in Appendix D.

5.5.1 Task 1 / Soil Trenching Results

A summary of the analytical results from the trench locations is shown on Table 9. Based on the analytical results, cis-1,2 was detected at 0.97 mg/kg, and TCE was detected at 0.22 mg/kg in TS-5. This sample was collected from beneath a water line on the west side of the building, approximately 40 feet south of the TCE roof tank and fill pipe. Trace concentrations of TCE were also identified in TS-2, TS-3, and TS-6 at 0.0027 mg/kg, 0.0083 mg/kg, and 0.015 mg/kg, respectively. MC was detected in all the soil samples in trace concentrations ranging from 0.0038 mg/kg to 0.011 mg/kg. MC is a typical laboratory artifact and is most likely not indicative of a contaminant in the samples collected. No other concentrations of VOCs were detected in the soil samples collected and analyzed.

Based on the analytical results from the trenching activities, solvent contamination is not migrating through the utility areas.

5.5.2 Task 1 / Soil and Groundwater Results

Soil borings SB-500 through SB-508 were advanced and subsequently converted to shallow monitoring wells MW-500S through MW-508S. In addition, as part of the Task 1 shallow soil sampling, four soil borings (SB-509 through SB-512) were advanced in the vicinity of STS soil boring B-125 to better delineate the extent of TCE contamination in this area. A summary of the analytical results from the soil boring / monitoring well locations is shown in Tables 10 and 19. A summary of the groundwater analytical results is shown in Tables 15 and 20.

Soil Results

Based on the analytical results, concentrations of TCE in the soil samples ranged from non-detect to 1.7 mg/kg. Specifically, TCE was detected at 1.7 mg/kg in the soil sample collected from soil boring SB-509 at 13 to 15 feet bgs. TCE at 0.082 mg/kg was identified in soil sample SB-500H from 15 to 17 feet bgs. In addition, trace concentrations of acetone, cis-1,2, trans-1,2, 1,1,1-TCA, MC, PCE, toluene, and VC were detected in the soil samples. However, all concentrations are below their respective objectives. MC was detected in trace concentrations ranging from non-detect to 0.019 mg/kg. Acetone was detected in eight of the soil samples collected in trace concentrations ranging from non-detect to 0.270 mg/kg. MC and acetone are typical laboratory artifacts and are most likely not indicative of a contaminant in the samples collected, as they were also detected in the associated method blank.

Groundwater Results

Eight monitoring wells (MW-101, MW-120, MW-123, MW-126, MW-401, MW-402, MW-403, and MW-502S) were sampled as part of Task 1 investigation activities. Refer

to Tables 10 and 20 for a summary of the analytical data from the Task 1 groundwater samples.

Various concentrations of VOCs above the Class I objectives were identified in five of the eight monitoring wells. Concentrations of TCE were detected in monitoring well MW-101 at 54 mg/L, in MW-120 at 0.0055 mg/L, in MW-123 at 0.43 mg/L, in MW-126 at 0.0063 mg/L, and in MW-402 at 0.0084 mg/L. Monitoring well MW-126 was resampled in November 1998 to confirm the concentration of TCE detected. The subsequent sampling showed an undetectable concentration of TCE.

In addition to concentrations of TCE (54 mg/L), concentrations of chloroform, 1,2-DCA, 1,1-DCE, cis-1,2, trans-1,2, MC, PCE, 1,1,1-TCA, 1,1,2-TCA, and VC above their corresponding Class I objectives were detected in MW-101. MW-101 is located immediately beneath the TCE fill pipe and former roof tank. In addition to concentrations of TCE (0.0055 mg/L), concentrations of cis-1,2- at 0.072 mg/L and MC at 0.0076 mg/L were detected in MW-120. Concentrations of benzene at 0.017 mg/L and cis-1,2 at 0.13 mg/L were detected in MW-123. A concentration of cis-1,2 at 0.18 mg/L was detected in MW-402.

5.5.3 Task 2 / Soil and Groundwater Results

Soil borings SB-600 through SB-622 and monitoring wells MW-500D, MW-501D, MW-504D, MW-508D, and MW-513D through MW-517 D were advanced and installed with the collection of soil and groundwater samples as part of Task 2 activities. A total of 113 soil samples and 17 groundwater samples were collected and analyzed for VOCs. A summary of the analytical results from the soil sampling is shown as Tables 11 and 19, and a summary of the analytical results from the groundwater sampling is shown as Tables 16 and 20.

Soil Results

Based on the analytical results, concentrations of TCE in the soil samples ranged from non-detect to 720 mg/kg. The highest concentration of TCE (720 mg/kg) was identified in soil sample SB-604 from 18 to 20 feet bgs. Out of 113 soil samples collected and analyzed as part of Task 2 activities, 69 samples were identified with TCE concentrations above laboratory detection limits. Of these, 44 samples were identified to have TCE concentrations above 0.06 mg/kg (migration to groundwater objective). However, only eight samples were identified with TCE concentrations greater than 8.9 mg/kg (the industrial/commercial inhalation remediation objective).

In general, the soil borings with the highest TCE concentrations are located in the parking lot, west of the former roof-mounted TCE AST.

In addition, concentrations of cis-1,2 were detected in concentrations ranging from non-detect to 27 mg/kg. The highest concentrations of cis-1,2 were identified in soil samples SB-604 from 6 to 8 feet bgs at 27 mg/kg, SB-604 from 12 to 14 feet bgs at 17 mg/kg, SB-603 from 10 to 12 feet bgs at 2.9 mg/kg, SB-603 from 16 to 18 feet bgs at 4.5 mg/kg, SB-609 from 12 to 14 feet bgs at 2 mg/kg, and SB-616 from 10 to 12 feet bgs at 2.4 mg/kg. Out of 113 soil samples analyzed, cis-1,2 was detected in 48 samples. Of these 48 samples, cis-1,2 was identified above 0.4 mg/kg in 18 soil samples. Concentrations of PCE were detected in soil samples ranging from non-detect to 8.2 mg/kg. The highest concentration of PCE was identified in soil boring SB-604 from 18 to 20 feet bgs. Out of 113 soil samples analyzed, PCE was detected in 16 samples. Of the 16 samples, PCE was identified above 0.06 mg/kg in five soil samples. Concentrations of VC were detected in soil samples ranging from non-detect to 1.1 mg/kg. The highest concentration of VC was identified in soil boring SB-604 from 18 to 20 feet bgs. Out of 113 soil samples analyzed, VC was detected in 14 samples. Of the 14 samples, VC was identified above 0.01 mg/kg (Tier 1 Objective) in nine soil samples. 1,1,1-TCA was detected in concentrations ranging from non-detect to

4.2 mg/kg. The highest concentration was detected in soil boring SB-604 from 18 to 20 feet bgs at 4.2 mg/kg. Of the 113 soil samples analyzed, 1,1,1-TCA was detected in five soil samples. Of these five samples, 1,1,1-TCA was identified above 2 mg/kg in one soil sample. Lastly, 1,1-DCE was identified in two samples, both in soil boring SB-604 from 6 to 8 feet bgs (0.055 mg/kg) and from 12 to 14 feet bgs (0.10 mg/kg). Only one soil sample is above 0.06 mg/kg (Tier 1 Objective).

Trace concentrations below their respective remedial objectives of the following chemicals were also detected in the soil samples collected and analyzed:

- Acetone (non-detect to 0.074 mg/kg) - 43 of 113 samples collected
- 2-Butanone (non-detect to 0.021 mg/kg) - 12 of 113 samples collected
- MC (non-detect to 0.0068 mg/kg) - 2 of 113 samples collected
- Toluene (non-detect to 0.014 mg/kg) - 4 of 113 samples collected
- Trans-1,2 (non-detect to 0.47 mg/kg) - 25 of 113 samples collected
- Xylenes (non-detect to 0.013 mg/kg - 1 of 113 samples collected
- 1,1-Dichloroethane (non-detect to 0.15 mg/kg) - 3 of 113 samples collected

Acetone and MC are most likely typical lab artifacts and are not indicative of contaminants in the samples collected, as they were also detected in the associated method blank.

Groundwater Results

Seventeen monitoring wells (MW-101, MW-120, MW-123, MW-126, MW-401, MW-402, MW-403, MW-502S, MW-500D, MW-501D, MW-504D, MW-508D and MW-513D through MW-517D) were sampled as part of Task 2 investigation activities. Refer to Tables 16 and 20 for a summary of the analytical data from the Task 2 groundwater samples.

Class I groundwater objectives for one or more VOCs were exceeded in eight of the 17 monitoring wells. Concentrations of TCE were detected above 0.005 mg/L in monitoring

well MW-101 at 83 mg/L, in MW-120 at 0.007 mg/L, in MW-123 at 0.027 mg/L, in MW-402 at 0.03 mg/L, in MW-500D at 1.7 mg/L, in MW-515D at 0.0079 mg/L, and in MW-516D at 0.21 mg/L.

Concentrations of cis-1,2 above 0.07 mg/L were identified in six of the 17 monitoring wells as follows: MW-101 at 41 mg/L; MW-402 at 0.17 mg/L; MW-500D at 2.9 mg/L; MW-515D at 0.32 mg/L; MW-516D at 0.099 mg/L; and MW-517D at 0.15 mg/L.

The following chemicals were also detected above their respective Class I groundwater objectives in monitoring well MW-101 during Task 2 sampling activities: 1,1-DCE; trans-1,2; and 1,1,1-TCA.

5.5.4 Task 3 / Soil Results

Soil borings SB-623 through SB-625 were advanced with the collection of soil samples as part of Task 3 activities. Eight soil samples were collected and analyzed for VOCs. A summary of the analytical results from the soil sampling is shown as Tables 12 and 19.

Soil Results

Based on the analytical results, concentrations of TCE in the soil samples ranged from non-detect to 0.31 mg/kg. The highest concentration of TCE (0.31 mg/kg) was identified in soil sample SB-623C from 4 to 6 feet bgs. Other soil samples showed trace concentrations of TCE and cis-1,2; however, these concentrations are below their remedial objectives.

Trace concentrations below their respective remedial objectives of the following chemicals were also detected in the soil samples collected and analyzed:

- Acetone (non-detect to 0.045 mg/kg) - 3 of 8 samples collected

- 2-Butanone (non-detect to 0.01 mg/kg) - 1 of 8 samples collected
- MC (non-detect to 0.009 mg/kg) - 5 of 8 samples collected

Acetone and MC are typical laboratory artifacts and are most likely not indicative of contaminants in the samples collected.

Groundwater Results

No groundwater samples were collected as part of Task 3 activities.

5.5.5 Task 4 / Offsite Soil and Groundwater Results

Soil borings SB-700 through SB-702 and monitoring wells MW-518D and MW-519D were advanced and installed with the collection of soil and groundwater samples as part of Task 4 activities. Nine soil samples and two groundwater samples were collected and analyzed for VOCs. Refer to Appendix G for a copy of the report prepared for the Task 4 offsite sampling activities. These two wells were properly abandoned prior to the grading of this property for the development of a retention basin for the Bill Kay property.

Soil Results

Based on the analytical results, concentrations of VOCs were not detected in any of the soil samples collected and analyzed (Tables 13 and 19).

Groundwater Results

Based on the analytical results, VOCs were not identified above laboratory detection limits in monitoring well MW-518D; however, TCE was detected at 0.53 mg/L in MW-519D (Tables 17 and 20). In addition, trace concentrations of cis-1,2 and trans-1,2 were detected below their respective remedial objectives at 0.018 mg/L and 0.0011 mg/L, respectively. As noted above, these monitoring wells have since been abandoned and have not been resampled as part of Task 5 discussed below.

5.5.6 Task 5 / Soil and Groundwater Results

Soil borings SB-800 through SB-808 and monitoring wells MW-520 through MW-522 were advanced and installed with the collection of soil and groundwater samples as part of Task 5 activities. A total of 54 soil samples and 19 groundwater samples were collected and analyzed for VOCs. A summary of the analytical results from the soil sampling is shown as Tables 14 and 19. A summary of the analytical results from the groundwater sampling is shown as Tables 18 and 19.

Soil Results

Based on the analytical results, concentrations of TCE in the soil samples ranged from non-detect to 51 mg/kg. The highest concentration of TCE (51 mg/kg) was identified in soil sample SB-807 from 48 to 50 feet bgs. Out of 54 soil samples collected and analyzed as part of Task 5 activities, 22 samples were identified with TCE concentrations above laboratory detection limits. Of these, 16 samples were identified to have TCE concentrations above 0.06 mg/kg (migration to groundwater objective). However, only three samples (SB-805 from 16 to 18 feet bgs at 25 mg/kg, SB-805 from 46 to 48 feet bgs at 22 mg/kg, and SB-807 from 48 to 50 feet bgs at 51 mg/kg) were identified with TCE concentrations greater than 8.9 mg/kg (the industrial/commercial inhalation remediation objective).

Based on the analytical results, cis-1,2 soil concentrations ranged from non-detect to 27 mg/kg. The highest concentration of cis-1,2 was identified in soil boring SB-807 from 48 to 50 feet bgs at 27 mg/kg. Of the 54 soil samples collected and analyzed as part of Task 5 activities, 12 were identified with cis-1,2 concentrations above laboratory detection limits. However, only five samples were identified having concentrations above 0.4 mg/kg (migration to groundwater objective).

Based on the analytical results, PCE soil concentrations ranged from non-detect to 0.082 mg/kg. Only one soil sample was identified with PCE concentrations. This sample is SB-801 from 35 to 37 feet bgs at 0.082 mg/kg. VC concentrations ranged from non-detect to 0.15 mg/kg. The highest concentration of VC was identified in SB-805 from 12 to 14 feet bgs at 0.15 mg/kg. Of the 54 soil samples analyzed, only four were identified with having detectable concentrations of VC, and only one of the samples was identified with having a concentration above 0.01 mg/kg (migration to groundwater objective).

Trace concentrations below the respective remedial objectives of the following chemicals were also detected in the soil samples collected and analyzed:

- Acetone (non-detect to 0.09 mg/kg) - 41 of 54 samples collected
- 2-Butanone (non-detect to 0.018 mg/kg) - 9 of 54 samples collected
- Carbon disulfide (non-detect to 0.42 mg/kg) - 8 of 54 samples collected
- MC (non-detect to 0.5 mg/kg) - 1 of 54 samples collected
- Trans-1,2 (non-detect to 0.0065 mg/kg) - 1 of 54 samples collected

Groundwater Results

Nineteen monitoring wells (MW-101, MW-120, MW-123, MW-126, MW-401, MW-402, MW-502S, MW-500D, MW-501D, MW-504D, MW-508D, MW-513D through MW-517D, and MW-520 through 522) were sampled as part of Task 5 investigation activities. Refer to Tables 18 and 20 for a summary of the analytical data from the Task 5 groundwater samples.

Class I remediation objectives for one or more VOCs were exceeded in nine of the 19 monitoring wells. Concentrations of TCE were detected in eight monitoring wells above 0.005 mg/L: in monitoring well MW-101 at 17 mg/L; in MW-120 at 0.01 mg/L; in MW-123 at 0.01 mg/L; in MW-402 at 0.0096 mg/L; MW-500D at 2.1 mg/L; in MW-516D at 0.19 mg/L; in MW-517D at 0.0078 mg/L; and in MW-521 at 0.0051 mg/L.

Concentrations of cis-1,2 above 0.07 mg/L were identified in seven of the 17 monitoring wells as follows: MW-101 at 7.6 mg/L; MW-120 at 0.078 mg/L; MW-402 at 0.29 mg/L; MW-500D at 4.8 mg/L; MW-515D at 0.44 mg/L; MW-516D at 0.15 mg/L; and MW-517D at 0.18 mg/L.

The following chemicals were also detected above their respective Class I remedial objectives in monitoring well MW-101 during Task 5 sampling activities: 1,1-DCE; trans-1,2; and 1,1,1-TCA.

6.0 SUMMARY OF SITE INVESTIGATIONS AND CONDITIONS

6.1 SOIL

Table 19 shows a summary of the analytical soil samples collected to date. The chemical parameters that exceed their corresponding soil objectives include the following: TCE; PCE; cis-1,2; VC; 1,1,1-TCA; and 1,1,2-TCA. As shown by the analytical soil results, the highest concentrations of TCE have been identified in the area below the roof-mounted TCE tank and fill pipe, west of the building. In addition, 1,1-DCE was detected above its corresponding Tier 1 objective of 0.06 mg/kg in only one soil sample collected. Refer to the table below for a summary of all soil samples collected.

SOIL SAMPLE SUMMARY OF CHEMICALS ABOVE OBJECTIVES			
Chemical Parameter	**Total # of Samples Analyzed**	**# Samples above Laboratory Detection Limits**	**# Samples above Most Stringent Tier I Objective**
STS Soil Sampling			
TCE	77	47	22
PCE	77	13	6
cis-1,2	60	11	0
VC	40	0	0
1,1,1-TCA	77	5	1
1,1,2-TCA	77	1	1
CEI Soil Sampling			
TCE	199	100	63
PCE	199	19	6
cis-1,2	199	69	23
VC	199	18	10
1,1,1-TCA	199	7	1
1,1,2-TCA	199	2	0
Totals			
TCE	276	147	85
PCE	276	32	12
cis-1,2	259	80	23
VC	239	18	10

SOIL SAMPLE SUMMARY OF CHEMICALS ABOVE OBJECTIVES			
Chemical Parameter	**Total # of Samples Analyzed**	**# Samples above Laboratory Detection Limits**	**# Samples above Most Stringent Tier I Objective**
1,1,1-TCA	276	12	2
1,1,2-TCA	276	3	1

Based on the analytical results, various figures depicting soil contamination above Tier 1 objectives are shown as Figures 17A through 17H. Samples that straddled a sampling depth range were placed in both ranges (i.e., a sample collected from 4 to 6 feet was placed both in the 0- to 5-foot depth interval range and the 5- to 10-foot depth interval range). Below is a brief description of each figure and corresponding analytical results.

6.1.1 Soil Above Tier 1 Objectives (0-5')

As indicated on Figure 17A, the soil contamination plume within 0 to 5 feet bgs is located below the former TCE AST, in the parking lot, and in the vicinity of the vapor degreaser within the building. Refer to the table below for a summary of the soil samples collected within the 0- to 5-foot depth interval.

SUMMARY OF SOIL SAMPLES COLLECTED (0-5') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
STS Sampling						
B-13 / 1-2'	**680**	20	NA	ND	**2.2**	ND
B-13 / 2-3'	**310**	**9**	NA	ND	0.5	ND
B-13 / 3-4'	**110**	**2.5**	NA	ND	0.2	**0.12**
B-14 / 1-2'	**120**	**1.7**	NA	ND	0.31	ND
B-15 / 3-4'	21	0.88	NA	ND	0.11	ND
MW-120 / 4-4.5'	0.00111	ND	NA	NA	ND	ND
B-122 / 2.5-4.5'	ND	ND	0.0029	NA	ND	ND
B-404 / 3.5-5'	ND	ND	ND	ND	ND	ND
B-301 / 1-3.5'	0.0097	ND	ND	ND	ND	ND

SUMMARY OF SOIL SAMPLES COLLECTED (0-5') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
B-302 / 1-3'	**0.12**	ND	ND	ND	ND	ND
B-303 / 1-3'	**0.78**	ND	ND	ND	ND	ND
B-304 / 1-3'	**0.13**	ND	ND	ND	ND	ND
B-305 / 1-3'	**0.12**	ND	ND	ND	ND	ND
B-306 / 1-3'	**0.61**	ND	ND	ND	ND	ND
B-307 / 4-6'	**22**	ND	ND	ND	ND	ND
B-308 / 1-5'	0.012	ND	ND	ND	ND	ND
B-310 / 1-3'	ND	ND	ND	ND	ND	ND
CEI Sampling						
SB-600 / 0-2'	ND	ND	ND	ND	ND	ND
SB-601 / 2-4'	0.044	ND	0.015	ND	ND	ND
SB-602 / 2-4'	ND	ND	0.099	ND	ND	ND
SB-603 / 2-4'	**1.9**	**0.22**	**0.77**	ND	ND	ND
SB-605 / 2-4'	**0.15**	ND	0.025	ND	ND	ND
SB-606 / 0-2'	0.013	ND	0.28	ND	ND	ND
SB-608 / 4-6'	**1.3**	ND	**0.61**	ND	ND	ND
SB-623 / 4-6'	**0.31**	ND	0.24	ND	ND	ND
SB-625 / 2-4'	ND	ND	ND	ND	ND	ND
SB-700 / 0-2'	ND	ND	ND	ND	ND	ND
SB-701 / 2-4'	ND	ND	ND	ND	ND	ND
SB-702 / 4-6'	ND	ND	ND	ND	ND	ND
SB-800C / 4-6'	ND	ND	ND	ND	ND	ND
SB-801B / 2-4'	ND	ND	ND	ND	ND	ND
SB-806C / 4-6'	ND	ND	ND	ND	ND	ND
SB-808B / 2-4'	ND	ND	ND	ND	ND	ND
MW-520C / 4-6'	ND	ND	ND	ND	ND	ND

Notes:
NA - Not analyzed
ND - Not identified above laboratory detection limits
Concentrations bold and underlined are above Tier 1 objectives and are shown in red on the corresponding Figure 17.

As indicated in the table above, 34 soil samples were collected from the 0- to 5-foot depth interval. Of the 34 soil samples collected, 15 show VOC concentrations above one or more Tier 1 objective. The highest concentration of TCE was detected in soil boring

B-13 from 1 to 2 feet bgs at 680 mg/kg. Refer to Figure 17A for the approximate area of contamination with the 0- to 5-foot depth interval.

6.1.2 Soil Above Tier 1 Objectives (5-10')

As indicated on Figure 17B, the soil contamination plume within 5 to 10 feet bgs is also located below the former TCE AST, in the parking lot, and in the vicinity of the vapor degreaser within the building. Refer to the table below for a summary of the soil samples collected within the 5- to 10-foot depth interval.

SUMMARY OF SOIL SAMPLES COLLECTED (5-10') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
STS Sampling						
MW-120 / 7.5-9.5'	0.0241	ND	NA	NA	ND	ND
MW-123 / 5-7'	ND	ND	0.02	NA	ND	ND
MW-123 / 7.5-9.5'	ND	ND	ND	NA	ND	ND
B-124 / 5-7'	0.0019	ND	ND	NA	ND	ND
B-124 / 7.5-9.5'	0.01	ND	0.0061	NA	ND	ND
MW-401 / 6-7.5'	ND	ND	ND	ND	ND	ND
MW-402 / 5-6.5'	ND	ND	ND	ND	ND	ND
MW-403 / 6-7.5'	ND	ND	ND	ND	ND	ND
B-405 / 6-7.5'	ND	ND	ND	ND	ND	ND
B-304 / 7-9'	ND	ND	ND	ND	ND	ND
B-305 / 8-10'	ND	ND	ND	ND	ND	ND
B-306 / 8-10'	ND	ND	ND	ND	ND	ND
B-307 / 4-6'	22	ND	ND	ND	ND	ND
B-308 / 8-10'	0.0068	ND	ND	ND	ND	ND
B-309 / 5.5-8'	ND	ND	ND	ND	ND	ND
CEI Sampling						
MW-502S / 7-9'	ND	ND	ND	ND	ND	ND
MW-503S / 7-9'	ND	ND	ND	ND	ND	ND
MW-504S / 5-7'	ND	ND	ND	ND	ND	ND
SB-509 / 9-11'	0.011	ND	0.031	ND	ND	ND
SB-510 / 9-11'	0.013	ND	ND	ND	ND	ND

SUMMARY OF SOIL SAMPLES COLLECTED (5-10') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
SB-512 / 9-11'	0.0029	ND	ND	ND	ND	ND
SB-600 /8-10'	**9.2**	0.0064	**0.59**	0.0072	0.0087	ND
SB-601 / 6-8'	0.017	ND	0.056	ND	ND	ND
SB-603 / 6-8'	0.013	ND	**0.6**	**0.082**	ND	ND
SB-604 / 6-8'	**0.8**	ND	**27**	**1.1**	0.21	ND
SB-605 / 8-10'	0.06	0.011	0.008	ND	ND	ND
SB-606 / 6-8'	0.032	ND	ND	ND	ND	ND
SB-607 / 8-10'	0.027	0.0076	**0.82**	**0.031**	ND	ND
SB-608 / 4-6'	**1.3**	ND	**0.61**	ND	ND	ND
SB-609 / 8-10'	**3.4**	ND	0.36	0.0071	ND	ND
SB-612 / 8-10'	ND	ND	ND	ND	ND	ND
SB-613 / 8-10'	ND	ND	ND	ND	ND	ND
SB-616 / 8-10'	ND	ND	ND	ND	ND	ND
SB-623 / 8-10'	0.045	ND	0.039	ND	ND	ND
SB-624 / 6-8'	0.014	ND	0.012	ND	ND	ND
SB-625 / 6-8'	ND	ND	ND	ND	ND	ND
MW-518D / 6-8'	ND	ND	ND	ND	ND	ND
MW-519D / 8-10'	ND	ND	ND	ND	ND	ND
SB-702 / 4-6'	ND	ND	ND	ND	ND	ND
SB-800C / 4-6'	ND	ND	ND	ND	ND	ND
SB-806C / 4-6'	ND	ND	ND	ND	ND	ND
SB-808E / 8-10'	ND	ND	ND	ND	ND	ND
MW-520C / 4-6'	ND	ND	ND	ND	ND	ND

Notes:
NA - Not analyzed
ND - Not identified above laboratory detection limits
Concentrations bold and underlined are above Tier 1 objectives and are shown in red on the corresponding Figure 17.

As indicated in the table above, 43 soil samples were collected from the 5- to 10-foot depth interval. Of the 43 soil samples collected, seven show VOC concentrations above one or more Tier 1 objective. The highest concentration of TCE was detected in soil boring SB-307 from 6 to 8 feet bgs at 22 mg/kg. In addition, cis-1,2 was detected in SB-604 from 6 to 8 feet bgs at 27 mg/kg. VC was detected above Tier 1 objectives in soil

borings SB-603 from 6 to 8 feet, SB-604 from 6 to 8 feet, and SB-607 from 8 to 10 feet at 0.082 mg/kg, 1.1 mg/kg, and 0.031 mg/kg, respectively. Refer to Figure 17B for the approximate area of contamination from the 5- to 10-foot depth interval.

6.1.3 Soil Above Tier 1 Objectives (10-15')

As indicated on Figure 17C, the soil contamination plume within 10 to 15 foot bgs is also located below the former TCE AST, in the parking lot, and in the vicinity of the vapor degreaser within the building; however, the soil contamination above Tier 1 objectives extends further west onto the west parcel in two lobe-like features. Based on the soil sampling conducted to date, a single sample collected from soil boring SB-803 from 14 to 16 feet bgs shows a concentration of TCE at 1.4 mg/kg. Additional sampling would be necessary to further define the soil impacts to the north and northwest of soil boring SB-803. Refer to the table below for a summary of the soil samples collected within the 10- to 15-foot depth interval.

SUMMARY OF SOIL SAMPLES COLLECTED (10-15') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
STS Sampling						
B-122 / 10-12'	0.004	ND	0.091	NA	ND	ND
B-124 / 10-12'	0.014	ND	ND	NA	ND	ND
B-124 / 12.5-14.5'	0.0015	ND	ND	NA	ND	ND
B-125 / 10-12	**0.11**	ND	0.0084	NA	ND	ND
MW-126 / 12.5-14.5'	ND	ND	ND	NA	ND	ND
MW-402 / 14-15'	ND	ND	ND	ND	ND	ND
B-307 / 12.5-15'	**0.23**	ND	0.043	ND	ND	ND
CEI Sampling						
MW-501S / 11-13'	ND	ND	ND	ND	ND	ND
MW-506S / 11-13'	ND	0.0054	0.0029	ND	ND	ND
SB-509 / 9-11'	0.011	ND	0.031	ND	ND	ND
SB-509 / 13-15'	**1.7**	0.005	0.14	ND	0.0065	0.0032

SUMMARY OF SOIL SAMPLES COLLECTED (10-15') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
SB-510 / 9-11'	0.013	ND	ND	ND	ND	ND
SB-511 / 11-13'	ND	ND	ND	ND	ND	ND
SB-512 / 9-11'	0.0029	ND	ND	ND	ND	ND
SB-600 /14-16'	ND	ND	ND	ND	ND	ND
SB-601 /12-14'	0.019	ND	0.1	ND	ND	ND
SB-602 / 10-12'	**0.097**	ND	0.13	ND	ND	ND
SB-603 / 10-12'	**1.4**	ND	**2.9**	ND	ND	ND
SB-604 / 12-14'	**25**	**0.57**	**17**	**0.26**	**4.2**	ND
SB-605 / 10-12'	**0.12**	0.01	0.012	ND	ND	ND
SB-606 / 10-12'	0.0077	ND	0.0082	ND	ND	ND
SB-607 / 12-14'	0.033	0.0082	**0.77**	**0.065**	ND	ND
SB-608 / 12-14'	**22**	ND	**0.77**	**0.012**	0.014	ND
SB-609 / 12-14'	**0.073**	ND	**2**	**0.066**	ND	ND
SB-610 / 10-12'	**5.3**	ND	**0.91**	0.01	0.007	ND
SB-611 / 12-14'	**2.3**	ND	**0.54**	ND	ND	ND
SB-612 / 12-15'	ND	ND	ND	ND	ND	ND
SB-613 / 12-15'	**0.087**	ND	0.024	ND	ND	ND
SB-614 / 12-15'	ND	ND	ND	ND	ND	ND
SB-615 / 12-15'	0.027	ND	ND	ND	ND	ND
SB-616 / 10-12'	**0.17**	ND	**2.4**	ND	ND	ND
SB-618 / 12-14'	0.021	ND	0.0077	ND	ND	ND
SB-621 / 10-12'	0.025	ND	0.011	ND	ND	ND
SB-622 / 10-12'	ND	ND	ND	ND	ND	ND
SB-623 / 12-14'	ND	ND	ND	ND	ND	ND
SB-624 /10-12'	ND	ND	0.039	ND	ND	ND
SB-625 / 12-14'	ND	ND	ND	ND	ND	ND
SB-801F / 10-12'	0.0095	ND	0.015	ND	ND	ND
SB-802H / 14-16'	ND	ND	ND	ND	ND	ND
SB-803H / 14-16'	**1.4**	ND	0.1	ND	ND	ND
SB-804F / 10-12'	ND	ND	ND	ND	ND	ND
SB-804H / 14-16'	ND	ND	0.088	0.0068	ND	ND
SB-805G / 12-14'	ND	ND	**0.84**	**0.15**	ND	ND
SB-806H / 14-16'	**0.096**	ND	0.045	0.0053	ND	ND
SB-807H / 14-16'	ND	ND	ND	ND	ND	ND
SB-808F / 10-12'	ND	ND	ND	ND	ND	ND

SUMMARY OF SOIL SAMPLES COLLECTED (10-15') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
MW-521F / 10-12'	ND	ND	ND	ND	ND	ND
MW-522G / 12-14'	ND	ND	ND	ND	ND	ND

Notes:
NA - Not analyzed
ND - Not identified above laboratory detection limits
Concentrations bold and underlined are above Tier 1 objectives and are shown in red on the corresponding Figure 17.

As indicated in the table above, 48 soil samples were collected from the 10- to 15-foot depth interval. Of the 48 soil samples collected, 17 show VOC concentrations above one or more Tier 1 objective. The highest concentrations of TCE were detected in soil borings SB-604 from 12 to 14 feet bgs at 25 mg/kg, and SB-608 from 12 to 14 feet bgs at 22 mg/kg. Cis-1,2, PCE, VC, 1,1,1-TCA were detected above their respective Tier 1 objectives in various samples at concentrations ranging between 0.012 mg/kg to 17 mg/kg. Refer to Figure 17C for the approximate area of contamination within the 10- to 15-foot depth interval.

6.1.4 Soil Above Tier 1 Objectives (15-20')

As indicated on Figure 17D, the soil contamination plume within 15 to 20 feet bgs is also located below the former TCE AST and in the parking lot; however, the soil contamination above Tier 1 objectives also extends further west onto the west parcel, duplicating the two lobe-like features identified in Figure 17C. Based on the soil sampling conducted to date, the same soil boring location (SB-803) as indicated within the 14- to 16-foot depth interval as shown on Figure 17C shows a concentration of TCE at 1.4 mg/kg. Additional sampling would be necessary to further define the soil impacts to the north and northwest of soil boring SB-803. Refer to the table below for a summary of the soil samples collected within the 15- to 20-foot depth interval.

SUMMARY OF SOIL SAMPLES COLLECTED (15-20') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
STS Sampling						
MW-105 / 15-17'	**960**	ND	ND	ND	ND	ND
B-121 / 17.5-19.5'	0.0024	ND	NA	NA	ND	ND
B-122 / 15-17'	0.0019	0.001	ND	NA	ND	ND
MW-123 / 15-17'	ND	ND	ND	NA	ND	ND
B-125 /15-17'	0.052	ND	0.0037	NA	ND	ND
B-125 / 17.5-19.5'	**0.1**	0.0012	0.0065	NA	ND	ND
MW-126 / 17.5-19.5'	0.028	ND	ND	NA	ND	ND
CEI Sampling						
MW-500S / 15-17'	**0.082**	ND	0.03	ND	ND	ND
MW-505S / 15-17'	ND	ND	ND	ND	ND	ND
MW-508S / 17-19'	0.0033	0.014	ND	ND	ND	ND
SB-600 /18-20'	ND	ND	ND	ND	ND	ND
SB-601 /18-20'	ND	ND	ND	ND	ND	ND
SB-602 / 16-18'	ND	ND	ND	ND	ND	ND
SB-603 / 16-18'	**0.96**	0.017	**4.5**	ND	ND	ND
SB-604 / 18-20'	**720**	**8.2**	Diluted	Diluted	Diluted	Diluted
SB-605 / 18-20'	ND	ND	ND	ND	ND	ND
SB-606 / 16-18'	**0.063**	0.0077	0.11	0.01	ND	ND
SB-607 / 16-18'	0.016	ND	0.31	0.0064	ND	ND
SB-608 / 18-20'	**21**	0.0078	**0.74**	**0.052**	ND	ND
SB-609 / 16-18'	ND	ND	ND	ND	ND	ND
SB-610 / 16-18'	**0.22**	ND	**0.41**	**0.077**	ND	ND
SB-611 / 16-17'	**1.3**	ND	0.31	ND	ND	ND
SB-612 / 15-18'	ND	ND	ND	ND	ND	ND
SB-613 / 18-20'	ND	ND	ND	ND	ND	ND
SB-614 / 18-20'	ND	ND	ND	ND	ND	ND
SB-615 / 18-21'	0.011	ND	ND	ND	ND	ND
SB-616 / 15-17'	**19**	ND	0.24	ND	ND	ND
SB-616 / 17-20'	**4.2**	ND	0.36	ND	ND	ND
SB-622 / 17-19'	ND	ND	ND	ND	ND	ND
MW-513D / 15-17'	ND	ND	ND	ND	ND	ND
MW-515D / 15-17'	*0.0065*	*ND*	*ND*	*ND*	*ND*	*ND*
SB-800I / 16-18'	ND	ND	ND	ND	ND	ND

SUMMARY OF SOIL SAMPLES COLLECTED (15-20') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
SB-801I / 16-18'	ND	ND	ND	ND	ND	ND
SB-802H / 14-16'	ND	ND	ND	ND	ND	ND
SB-802I / 16-18'	ND	ND	ND	ND	ND	ND
SB-803H / 14-16'	**1.4**	ND	0.1	ND	ND	ND
SB-804H / 14-16'	ND	ND	0.088	0.0068	ND	ND
SB-804I / 16-18'	ND	ND	0.068	0.0077	ND	ND
SB-805I / 16-18'	**25**	ND	**2.5**	ND	ND	ND
SB-806H / 14-16'	**0.096**	ND	0.045	0.0053	ND	ND
SB-807H / 14-16'	ND	ND	ND	ND	ND	ND
SB-808J / 18-20'	ND	ND	ND	ND	ND	ND
MW-520J / 18-20'	ND	ND	ND	ND	ND	ND

Notes:
NA - Not analyzed
ND - Not identified above laboratory detection limits
Concentrations bold and underlined are above Tier 1 objectives and are shown in red on the corresponding Figure 17.

As indicated in the table above, 43 soil samples were collected from the 15- to 20-foot depth interval. Of the 43 soil samples collected, 14 show VOC concentrations above one or more Tier 1 objective. The highest concentrations of TCE were detected in soil borings MW-105 from 15 to 17 feet bgs at 960 mg/kg, and SB-604 from 18 to 20 feet bgs at 720 mg/kg. Cis-1,2, PCE, and VC were detected above their respective Tier 1 objectives in various samples at concentrations ranging between 0.052 mg/kg to 8.2 mg/kg. Refer to Figure 17D for the approximate area of contamination within the 15- to 20-foot depth interval.

6.1.5 Soil Above Tier 1 Objectives (20-30')

As indicated on Figure 17E, the soil contamination plume within 20 to 30 feet bgs is also located below the former TCE AST; however, a gap in the soil contamination above Tier 1 objectives appears in the parking lot west of the former TCE AST. Soil

contamination is again evident in a "c" shape further west onto the west parcel. Refer to the table below for a summary of the soil samples collected within the 20- to 30-foot depth interval.

SUMMARY OF SOIL SAMPLES COLLECTED (20-30') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
STS Sampling						
MW-101 / 20-21.5'	**0.093**	ND	0.016 (Total)	ND	ND	ND
MW-120 / 20-22'	ND	ND	ND	ND	ND	ND
B-122 / 20-22'	0.0018	ND	ND	NA	ND	ND
B-122 / 25-27'	ND	ND	ND	NA	ND	ND
B-125 /20-22'	0.059	ND	0.0048	NA	ND	ND
B-125 / 25-27'	0.058	0.001	0.0076	NA	ND	ND
MW-126 / 20-22'	0.011	ND	ND	NA	ND	ND
MW-126 / 25-27'	0.013	ND	ND	NA	ND	ND
MW-401 / 28.5-30'	ND	**0.14**	ND	ND	ND	ND
CEI Sampling						
MW-507S / 23-25'	0.0088	ND	ND	ND	ND	ND
SB-600 /24-26'	0.0088	ND	ND	ND	ND	ND
SB-601 /26-28'	ND	ND	ND	ND	ND	ND
SB-602 / 23-25'	ND	ND	ND	ND	ND	ND
SB-603 / 26-28'	0.021	ND	0.036	ND	ND	ND
SB-605 / 26-28'	0.0068	ND	ND	ND	ND	ND
SB-606 / 28-30'	ND	ND	ND	ND	ND	ND
SB-607 / 24-26'	ND	ND	ND	ND	ND	ND
SB-610 / 26-28'	**2.0**	ND	**0.61**	ND	ND	ND
SB-611 / 26-28'	0.022	ND	ND	ND	ND	ND
SB-612 / 28-30'	**0.67**	ND	0.11	ND	ND	ND
SB-613 / 25-28'	ND	ND	ND	ND	ND	ND
SB-614 / 22-24'	ND	ND	ND	ND	ND	ND
SB-620 / 28-30'	ND	ND	ND	ND	ND	ND
SB-621 / 28-30'	ND	ND	ND	ND	ND	ND
MW-515D / 25-27'	ND	ND	ND	ND	ND	ND
MW-516D / 25-27'	ND	ND	ND	ND	ND	ND
SB-801K / 28-30'	ND	ND	ND	ND	ND	ND

SUMMARY OF SOIL SAMPLES COLLECTED (20-30') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
SB-802K / 28-30'	0.01	ND	ND	ND	ND	ND
SB-804K / 28-30'	ND	ND	ND	ND	ND	ND
SB-805L / 22-24'	ND	ND	ND	ND	ND	ND
SB-805M / 28-30'	**1.0**	ND	ND	ND	ND	ND
SB-806M / 28-30'	**0.14**	ND	0.028	ND	ND	ND
SB-807J / 28-30'	0.033	ND	ND	ND	ND	ND
SB-808L / 28-30'	ND	ND	ND	ND	ND	ND
MW-521 / 28-30'	ND	ND	ND	ND	ND	ND
MW-522K / 28-30'	0.02	ND	ND	ND	ND	ND

Notes:
NA - Not analyzed
ND - Not identified above laboratory detection limits
Concentrations bold and underlined are above Tier 1 objectives and are shown in red on the corresponding Figure 17.

As indicated in the table above, 36 soil samples were collected from the 20- to 30-foot depth interval. Of the 36 soil samples collected, six show VOC concentrations above one or more Tier 1 objective. The highest concentrations of TCE were detected in soil borings SB-610 from 26 to 28 feet bgs at 2.0 mg/kg, and SB-805 from 28 to 30 feet bgs at 1.0 mg/kg. PCE was also detected above its respective Tier 1 objectives in one sample (MW-401 from 28.5 to 30 feet bgs) at 0.14 mg/kg. Cis-1,2 was detected above its respective Tier 1 objectives in one sample (SB-610 from 26 to 28 feet bgs) at 0.61 mg/kg. Refer to Figure 17E for the approximate area of contamination within the 20- to 30-foot depth interval.

6.1.6 Soil Above Tier 1 Objectives (30-40')

As indicated on Figure 17F, the soil contamination plume above Tier 1 objectives within 30 to 40 feet bgs is widespread throughout the area beneath the parking lot and extending west onto the west parcel. Based on the soil sampling conducted to date, the soil boring

location (SB-808) as indicated within the 38- to 40-foot depth interval shows a concentration of TCE at 1.4 mg/kg, and soil boring location SB-805 as indicated within the 38- to 40-foot depth interval shows a concentration of TCE at 6.5 mg/kg. Additional sampling would be necessary to further define the soil impacts to the southeast of soil boring SB-808 and west/northwest of SB-805. Refer to the table below for a summary of the soil samples collected within the 30- to 40-foot depth interval.

SUMMARY OF SOIL SAMPLES COLLECTED (30-40') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
STS Sampling						
MW-105 / 35-37'	**9.2**	ND	ND	ND	ND	ND
MW-120 / 35-37'	**0.301**	ND	NA	NA	ND	ND
B-122 / 30-32'	*4*	*0.0052*	*ND*	*ND*	*ND*	*ND*
B-122 / 32.5-34.5'	**0.91**	ND	ND	ND	ND	ND
MW-126 /35-37'	0.0058	ND	ND	NA	ND	ND
B-404 / 38.5-40'	ND	ND	ND	ND	ND	ND
B-405 /33.5-35'	ND	ND	ND	ND	ND	ND
CEI Sampling						
MW-500D / 35-37'	**0.18**	ND	0.098	ND	ND	ND
MW-501D / 35-37'	**0.14**	ND	ND	ND	ND	ND
SB-600 / 35-37'	**0.24**	ND	0.037	ND	ND	ND
SB-601 /35-37'	**0.33**	ND	ND	ND	ND	ND
SB-602 / 35-37'	**2.4**	0.036	ND	ND	ND	ND
SB-605 / 35-37'	**9.6**	**0.28**	ND	ND	ND	ND
SB-607 / 35-37'	**3.1**	**0.12**	ND	ND	ND	ND
SB-608 / 35-37'	**1.2**	ND	ND	ND	ND	ND
SB-609 / 37-39'	**3**	ND	0.39	ND	ND	ND
SB-611 / 35-37'	**0.22**	ND	0.041	ND	ND	ND
SB-612 / 37-39'	**0.51**	ND	0.094	ND	ND	ND
SB-613 / 37-39'	**1.3**	ND	0.12	ND	ND	ND
SB-614 / 37-39'	ND	ND	ND	ND	ND	ND
SB-617 / 38-40'	**0.21**	ND	ND	ND	ND	ND
SB-618 / 34-36'	0.015	ND	ND	ND	ND	ND
SB-619 / 30-32'	ND	ND	ND	ND	ND	ND
SB-619 / 36-38'	ND	ND	ND	ND	ND	ND

SUMMARY OF SOIL SAMPLES COLLECTED (30-40') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
SB-620 / 36-38'	0.015	ND	ND	ND	ND	ND
SB-621 / 35'-37'	**2.1**	0.053	ND	ND	ND	ND
MW-514D / 35-37'	0.033	ND	ND	ND	ND	ND
MW-515D / 35-37'	**0.7**	ND	0.16	ND	ND	ND
MW-516D / 35-37'	ND	ND	ND	ND	ND	ND
MW-517D / 35-37'	ND	ND	ND	ND	ND	ND
MW-518D / 32-34'	ND	ND	ND	ND	ND	ND
MW-519D / 33-35'	ND	ND	ND	ND	ND	ND
SB-801L / 35-37'	**3.9**	0.082	ND	ND	ND	ND
SB-802L / 38-40'	ND	ND	ND	ND	ND	ND
SB-804M / 38-40'	**0.34**	ND	ND	ND	ND	ND
SB-805N / 38-40'	**6.5**	ND	**0.8**	ND	ND	ND
SB-806N / 38-40'	**1.5**	ND	ND	ND	ND	ND
SB-807K / 38-40'	**0.062**	ND	0.0073	ND	ND	ND
SB-808M / 38-40'	**1.4**	ND	ND	ND	ND	ND
MW-522L / 38-40'	ND	ND	ND	ND	ND	ND

Notes:
NA - Not analyzed
ND - Not identified above laboratory detection limits
Concentrations bold and underlined are above Tier 1 objectives and are shown in red on the corresponding Figure 17.

As indicated in the table above, 40 soil samples were collected from the 30- to 40-foot depth interval. Of the 40 soil samples collected, 25 show VOC concentrations above one or more Tier 1 objective. The highest concentrations of TCE were detected in soil borings MW-105 from 35 to 37 feet bgs at 9.2 mg/kg, and SB-605 from 38 to 40 feet bgs at 9.6 mg/kg. The highest concentration detected on the west parcel is in soil boring SB-805 from 38 to 40 feet bgs at 6.5 mg/kg. PCE was also detected above its respective Tier 1 objectives in two samples (SB-605 and SB-607 both from 35 to 37 feet bgs) at 0.28 mg/kg and 0.12 mg/kg, respectively. Cis-1,2 was detected above its respective Tier 1 objectives in one sample (SB-805 from 38 to 40 feet bgs) at 0.8 mg/kg. Refer to

Figure 17F for the approximate area of contamination with the 30- to 40-foot depth interval.

6.1.7 Soil Above Tier 1 Objectives (40-50')

As indicated on Figure 17G, the soil contamination plume within 40 to 50 feet bgs is also located below the former TCE AST and in the parking lot; however, the soil contamination above Tier 1 objectives also extends further west onto the west parcel. Some of the highest concentrations detected away from the source area (immediately beneath the former TCE AST) during onsite investigations have been identified within this depth interval. Based on the soil sampling conducted to date, samples collected from soil borings SB-805, SB-807, and MW-522 from within this depth interval show TCE concentrations at 22 mg/kg, 51 mg/kg, and 0.81 mg/kg above the Tier 1 soil objective of 0.06 mg/kg. Additional sampling would be necessary to further define the soil impacts to the north and northwest of these soil borings. The sample collected from soil boring SB-801 from 45 to 47 feet bgs shows a concentration of TCE at 8.2 mg/kg. In order to further define the extent of soil above Tier 1 objectives north of SB-801, additional soil sampling is necessary. The sample collected from soil boring MW-520 from 38 to 40 feet bgs shows a concentration of TCE at 0.1 mg/kg, slightly above the Tier 1 soil objective of 0.06 mg/kg. In order to further define the extent of soil above Tier 1 objectives in the vicinity of MW-520, additional soil sampling is necessary. Refer to the table below for a summary of the soil samples collected within the 40- to 50-foot depth interval.

SUMMARY OF SOIL SAMPLES COLLECTED (40-50') – mg/kg						
Sample ID / Depth Objective	***TCE* Result 0.06**	***PCE* Result 0.06**	***Cis-1,2* Result 0.4**	***VC* Result 0.01**	***1,1,1-TCA* Result 2**	***1,1,2-TCA* Result 0.02**
STS Sampling						
MW-104 / 42-44'	1.1	ND	ND	ND	ND	ND

SUMMARY OF SOIL SAMPLES COLLECTED (40-50') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
MW-120 / 40-42'	0.0035	ND	NA	NA	ND	ND
MW-120 / 45-47'	ND	ND	NA	NA	ND	ND
MW-120 / 47-49'	ND	ND	NA	NA	ND	ND
B-121 / 45-47'	0.025	ND	NA	NA	ND	ND
MW-402 / 48.5-50'	ND	ND	ND	ND	ND	ND
MW-403 / 43.5-45'	ND	ND	ND	ND	ND	ND
CEI Sampling						
MW-501D / 42-44'	ND	ND	ND	ND	ND	ND
SB-602 / 45-47'	**13**	ND	ND	ND	ND	ND
SB-605 / 43-45'	**7.8**	**0.15**	ND	ND	ND	ND
SB-608 / 42-44'	**0.15**	ND	0.019	ND	ND	ND
SB-609 / 43-45'	ND	ND	ND	ND	ND	ND
SB-611 / 42-44'	ND	ND	ND	ND	ND	ND
SB-612 / 47-49'	ND	ND	0.067	ND	ND	ND
SB-614 / 44-46'	0.0098	ND	ND	ND	ND	ND
MW-514D / 45-47'	ND	ND	ND	ND	ND	ND
SB-801M / 45-47'	**8.2**	ND	ND	ND	ND	ND
SB-802M / 48-50'	0.0068	ND	ND	ND	ND	ND
SB-803L / 48-50'	ND	ND	ND	ND	ND	ND
SB-805O / 46-48'	**22**	ND	**26**	ND	ND	ND
SB-806P / 48-50'	ND	ND	ND	ND	ND	ND
SB-807M / 48-50'	**51**	ND	**27**	ND	ND	ND
MW-520U / 48-50'	**0.1**	ND	ND	ND	ND	ND
MW-521L / 48-50'	ND	ND	ND	ND	ND	ND
MW-522M / 48-50'	**0.81**	ND	ND	ND	ND	ND

Notes:

NA - Not analyzed
ND - Not identified above laboratory detection limits
Concentrations bold and underlined are above Tier 1 objectives and are shown in red on the corresponding Figure 17.

As indicated in the table above, 25 soil samples were collected from the 40- to 50-foot depth interval. Of the 25 soil samples collected, nine show VOC concentrations above one or more Tier 1 objective. The highest concentrations of TCE were detected in soil

borings SB-807 from 48 to 50 feet bgs at 51 mg/kg, SB-805 from 46 to 48 feet bgs at 22 mg/kg, and SB-602 from 45 to 47 feet at 13 mg/kg. Soil borings SB-805 and SB-807 are located on the west parcel. Cis-1,2 was detected in soil borings SB-605, SB-805, and SB-807 above its Tier 1 objective. Refer to Figure 17G for the approximate area of contamination within the 40- to 50-foot depth interval.

6.1.8 Soil Above Tier 1 Objectives (50+')

As indicated on Figure 17H and based on the soil sampling conducted to date onsite, soil is not impacted above Tier 1 objectives at depths above 50 feet bgs. Refer to the table below for a summary of the soil samples collected 50 feet and below.

SUMMARY OF SOIL SAMPLES COLLECTED (50+') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
STS Sampling						
MW-120 / 55.5-57.7'	0.0023	ND	NA	NA	ND	ND
B-121 / 50-52'	0.0022	ND	NA	NA	ND	ND
B-121 / 55-57'	0.0024	ND	NA	NA	ND	ND
MW-126 / 50-52'	0.0058	0.0011	ND	NA	ND	ND
MW-126 / 65-67'	ND	ND	ND	NA	ND	ND
MW-126 / 70-72'	ND	0.0014	ND	NA	ND	ND
MW-126 / 75-77'	ND	0.0017	ND	NA	ND	ND
MW-401 / 53.5-55'	ND	ND	ND	ND	ND	ND
MW-403 / 58.5-60'	ND	ND	ND	ND	ND	ND
CEI Sampling						
MW-504D / 58-60'	ND	ND	ND	ND	ND	ND
MW-508D / 60-62'	ND	ND	ND	ND	ND	ND
SB-605 / 52-54'	ND	ND	ND	ND	ND	ND
MW-513D / 50-52'	ND	ND	ND	ND	ND	ND
MW-517D / 55-57'	ND	ND	ND	ND	ND	ND
MW-518D / 52-54'	ND	ND	ND	ND	ND	ND
MW-519D / 50-52'	ND	ND	ND	ND	ND	ND
MW-520Y / 63-65'	ND	ND	ND	ND	ND	ND

SUMMARY OF SOIL SAMPLES COLLECTED (50+') – mg/kg						
Sample ID / Depth Objective	**TCE Result 0.06**	**PCE Result 0.06**	**Cis-1,2 Result 0.4**	**VC Result 0.01**	**1,1,1-TCA Result 2**	**1,1,2-TCA Result 0.02**
MW-521M / 55-57'	0.0052	ND	ND	ND	ND	ND
MW-522N / 55-57'	ND	ND	ND	ND	ND	ND

Notes:

NA - Not analyzed
ND - Not identified above laboratory detection limits
Concentrations bold and underlined are above Tier 1 objectives and are shown in red on the corresponding Figure 17.

As indicated in the table above, 19 soil samples were collected over 50 feet bgs. Trace concentrations of TCE were detected in soil borings between 0.0022 mg/kg to 0.0058 mg/kg. Trace concentrations of PCE were detected in two soil samples at 0.0014 mg/kg and 0.0017 mg/kg. Refer to Figure 17H for the samples collected from below 50 feet bgs.

6.2 SHALLOW GROUNDWATER

Groundwater occurring in the shallow glacial till/fill was identified in monitoring wells MW-101, MW-123, and MW-502S. Table 20 provides a comparison of the groundwater sampling events that have been conducted to date for these wells. Based on the groundwater investigations conducted onsite thus far, the following chemical parameters have been identified above Tier 1 Class I objectives at least one time during sampling activities in the shallow groundwater in MW-101: TCE, chloroform, 1,2-DCE, 1,1-DCE, cis-1,2, trans-1,2, MC, PCE, 1,1,1-TCA, 1,1,2-TCA, and VC. In addition, TCE, cis-1,2 and benzene were identified in the shallow groundwater of MW-123. Monitoring well MW-502S did not show chemicals above laboratory detection limits the three times it was sampled for VOCs.

Concentrations of TCE observed in monitoring well MW-101 are the highest detected in any of the monitoring wells sampled onsite. Of the four times MW-101 was sampled, TCE concentrations have ranged between 83 mg/L in February 1999 to 17 mg/L in November 2000. The Class I groundwater objective for TCE is 0.005 mg/L. Cis-1,2 concentrations have ranged between 42 mg/L in August 1998 to 7.6 mg/L in November 2000. The Class I groundwater objective for cis-1,2 is 0.07 mg/L. Concentrations of TCE to cis-1,2 have remained in a ratio of approximately 2 to 1 in all sampling events.

Concentrations of PCE (0.0095 mg/L and 0.0065 mg/L) and VC (0.073 mg/L and 0.048 mg/L) were identified in the first two sampling events of MW-101. However, neither compound was identified the last two sampling events.

6.3 CLASS I GROUNDWATER

Sixteen onsite monitoring wells (MW-126, MW-401 through MW-403, MW-500D, MW-501D, MW-504D, MW-508D, MW-513D through MW-517D, and MW-520 through MW-522) were constructed to sample groundwater occurring within lithologies below the upper glacial till/fill. In addition, two offsite groundwater monitoring wells were installed to the south of the east parcel (MW-518D and MW-519D) and have now been abandoned. Based on potentiometric surface maps that have been prepared and appear as Figures 10 through 13, groundwater occurring in the saturated sediments in the glaciofluvial sand and gravel flows to the west and south.

Based on the groundwater sampling of the deeper onsite monitoring wells, the following compounds have been identified above Tier 1 Class I objectives at least one time during sampling activities: TCE (MW-120, MW-126, MW-401, MW-402, MW-500D, MW-515D, MW-516D, MW-517D, MW-519D [offsite], and MW-521) and cis-1,2 (MW-120, MW-402, MW-500D, MW-515D, MW-516D, and MW-517D). Based on the last sampling event in November 2000, TCE concentrations above objectives ranged from

0.0051 mg/L in MW-521 to 2.1 mg/L in MW-500D. Cis-1,2 concentrations above objectives ranged from 0.078 mg/L in MW-120 to 4.8 mg/L in MW-500D.

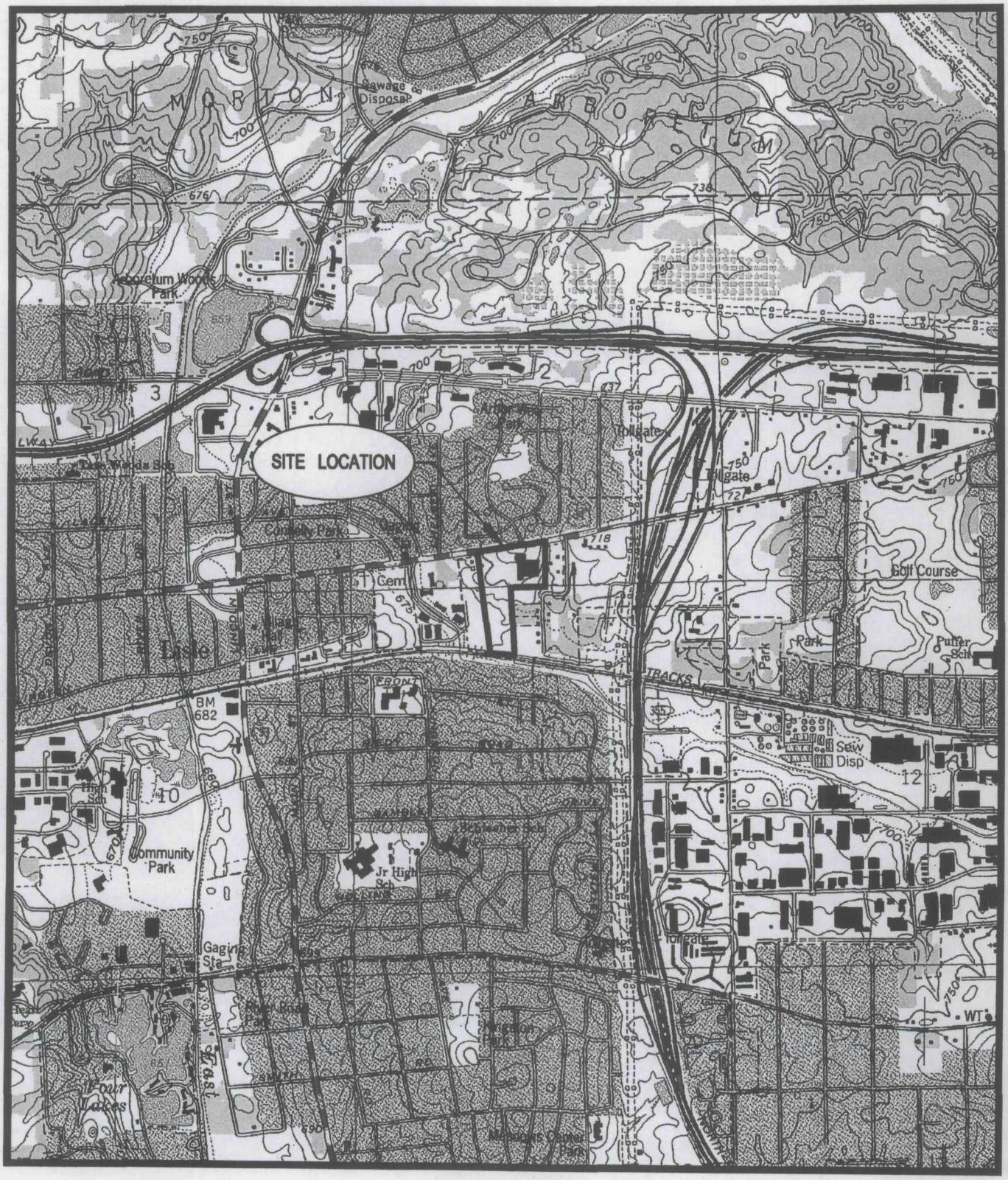
The highest concentrations of TCE (2.1 mg/L) and cis-1,2 (4.8 mg/L) were identified in monitoring well MW-500D at the time of the most recent sampling event in November 2000. With the exception of TCE and cis-1,2, no other compounds were identified above Class I objectives in the groundwater of these wells during any sampling event. PCE was detected in monitoring well MW-401 at 0.015 mg/L in August 1997; however, PCE was not identified above laboratory detection in the next three sampling events.

Figure 18 illustrates the monitoring wells installed at the site, the date that each of the monitoring wells was sampled, and all detectable concentrations of VOCs observed.

Based on the analytical data completed to date, the lateral extent of Class I groundwater contamination has not been defined. Although the concentration of TCE in MW-521 (0.0051 mg/L) is at the Class I objective of 0.005 mg/L, in order to better delineate the lateral extent of VOCs above Class I objectives west of MW-521, additional sampling would be necessary. In addition, TCE was detected in offsite monitoring well at 0.053 mg/L in December 1999. In order to better delineate the lateral extent of VOCs above Class I objectives south and southeast of MW-519D, additional well installation and sampling is necessary.

Three onsite monitoring wells (MW-126, MW-520, and MW-521) have been installed within the upper portions of the dolomitic bedrock and/or the sand/fractured bedrock interface. Of these wells, TCE was detected at 0.001 mg/L in MW-126, 0.0047 in MW-520, and 0.0051 mg/L in MW-521.

FIGURES



Scale 1:24000

0 1/2 1 MILE

1000 0 1000 2000 3000 FEET

QUADRANGLE LOCATION

FIGURE 1

SITE LOCATION MAP

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

(SOURCE OF MAP IS USGS 7.5 MINUTE QUADRANGLE MAP, WHEATON, ILLINOIS)

200 0 200 400 Feet

LEGEND

VAPOR DEGREASER	OFF SITE MONITORING WELL
WATER RESEVOR	ON SITE MONITORING WELL
ONSITE WELL	PARCEL BOUNDARY
FORMER TCE AST	

NOTE:

Aerial Photo and Property Boundaries obtained from Dupage County Government. Monitoring Well location based on survey completed January 5, 2001. Location of former TCE AST, Onsite Well, Water Resevor, and Vapor Degreaser based on Aerial Photograph and Carlson Environmental, Inc. Drawing.

Map is Illinois State Plane East, NAD 83, Foot.

SITE FEATURES MAP

LOCKFORMER, INC.
711 OGDEN AVENUE
LISLE, ILLINOIS

N

FIGURE 2

300 0 300 600 Feet

LEGEND

PARCEL BOUNDARY

TOPOGRAPHIC CONTOUR LINE

SITE TOPOGRAPHIC MAP

N

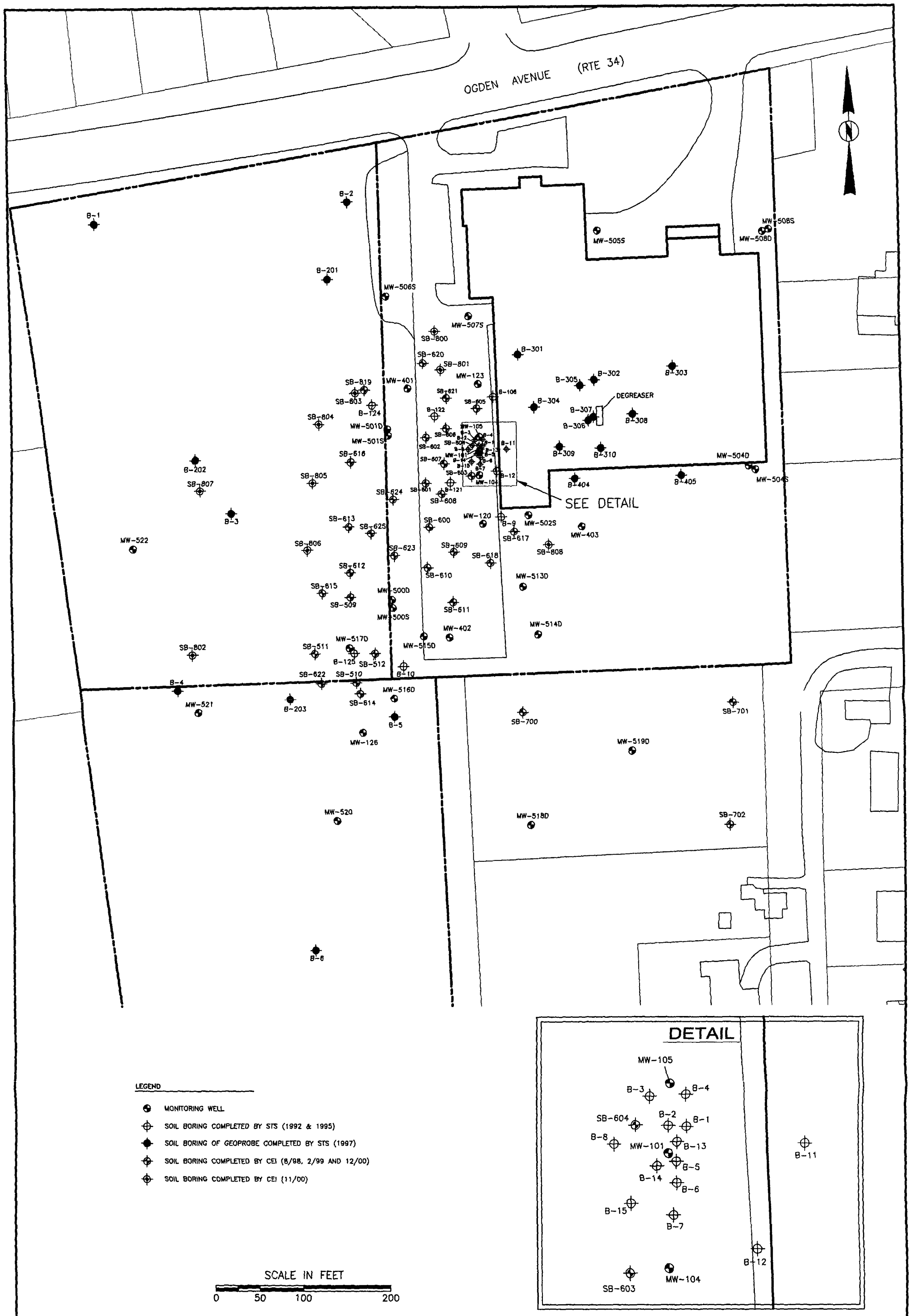
NOTE:

Aerial Photo, Property Boundaries, and
Contour Lines obtained from DuPage County Government.
Date of Aerial Photo: April 1998.

Map is Illinois State Plane East, NAD 83, Foot.

LOCKFORMER, INC.
711 OGDEN AVENUE
LISLE, ILLINOIS

FIGURE 3



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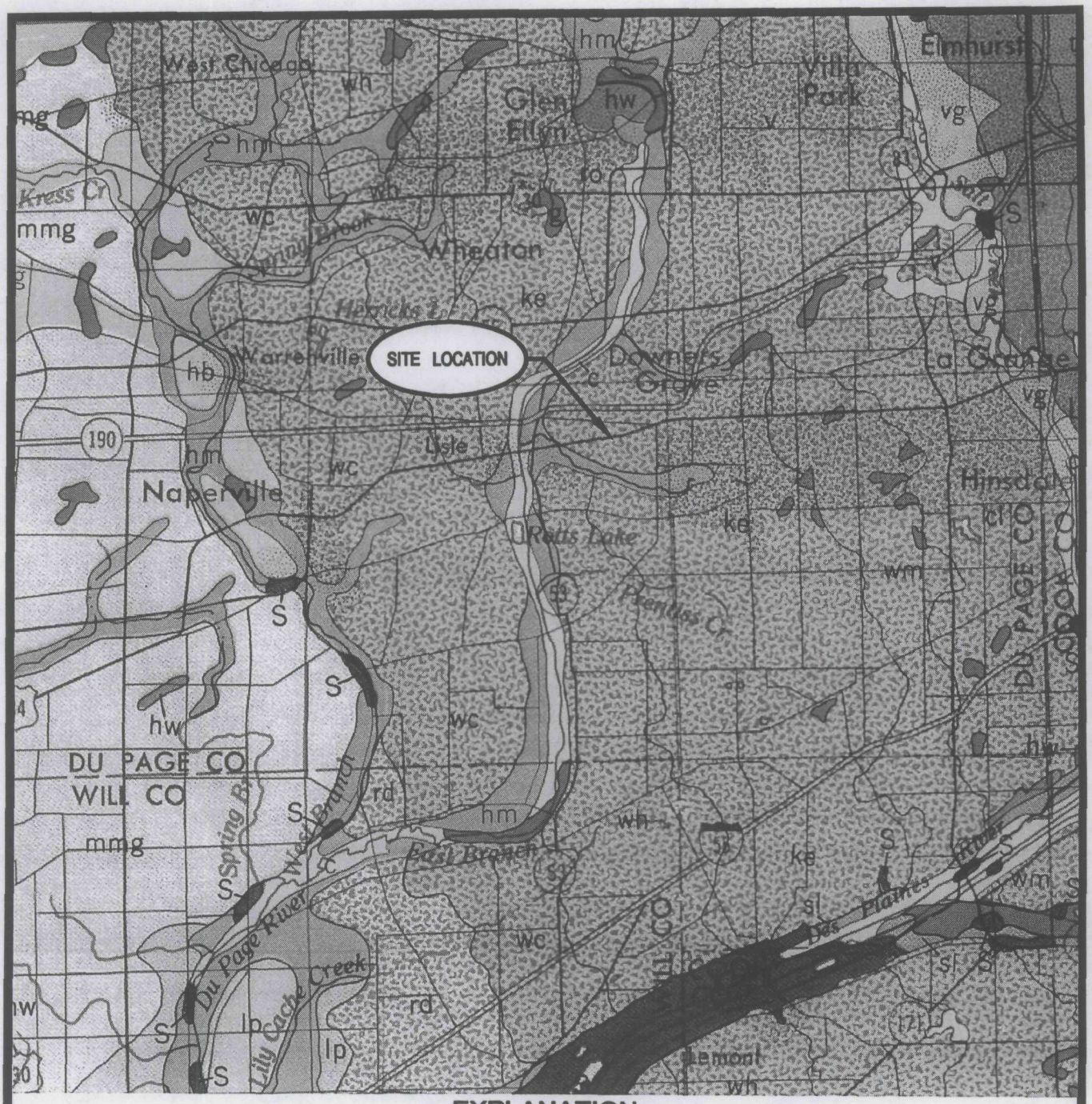
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526301C
PRJ NO.	65263.01

SAMPLING LOCATION MAP

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton
GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 4



EXPLANATION

Valparaiso Morainic System

North line of Du Page County to Des Plaines Valley

ke Keeneyville Moraine

hm

Mackinaw Member of Henry Formation

Sand and gravel, generally well sorted and evenly bedded; deposits in valleys; mostly glacial outwash in terraces — remnants of valley trains; includes similar deposits in glacial sluiceways.

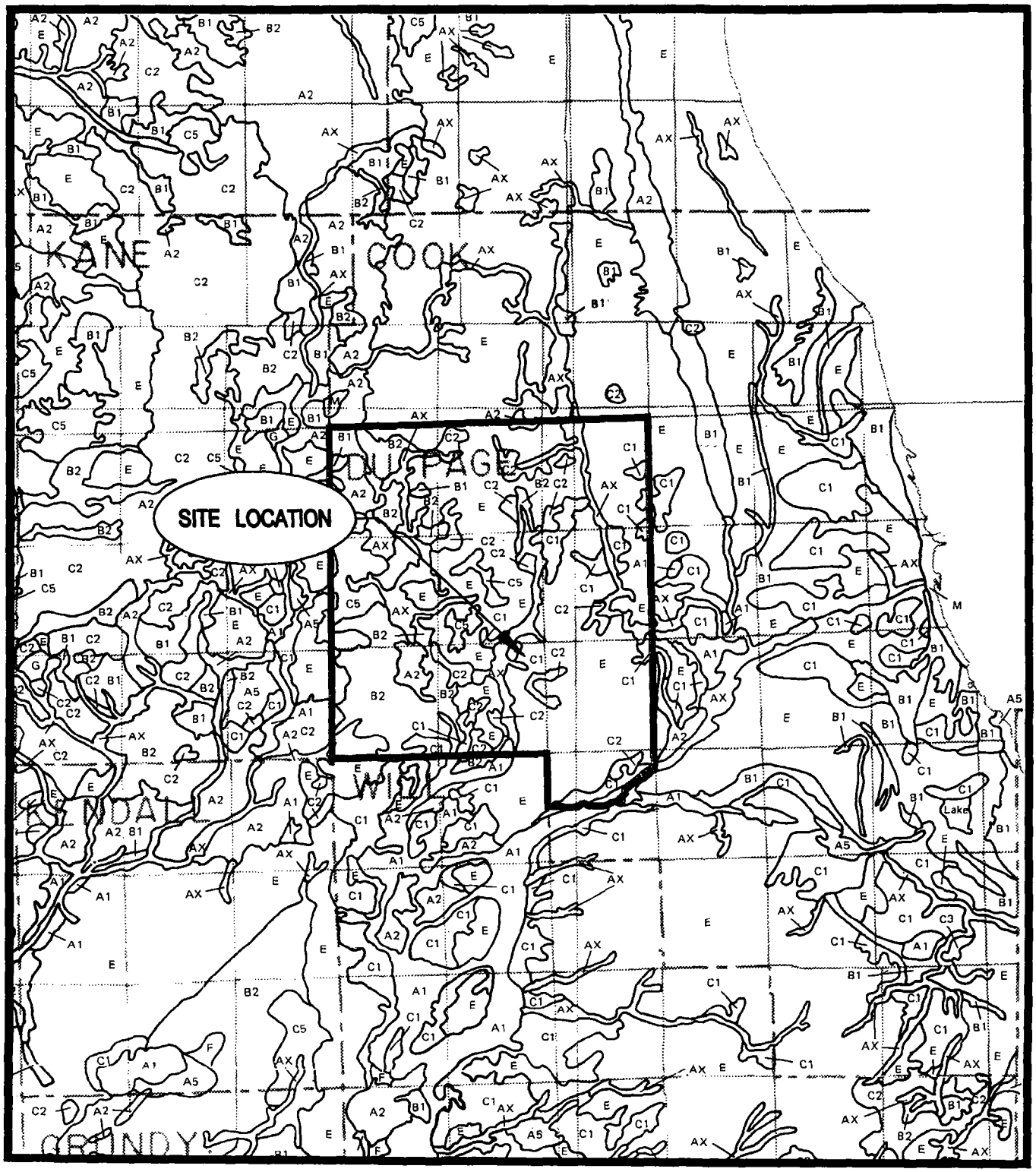
SITE LOCATION

FIGURE 5

SURFICIAL GEOLOGY MAP

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

(SOURCE OF MAP IS *ILLINOIS STATE GEOLOGICAL SURVEY*, CIRCULAR 460, "SURFICIAL GEOLOGY OF THE CHICAGO REGION")



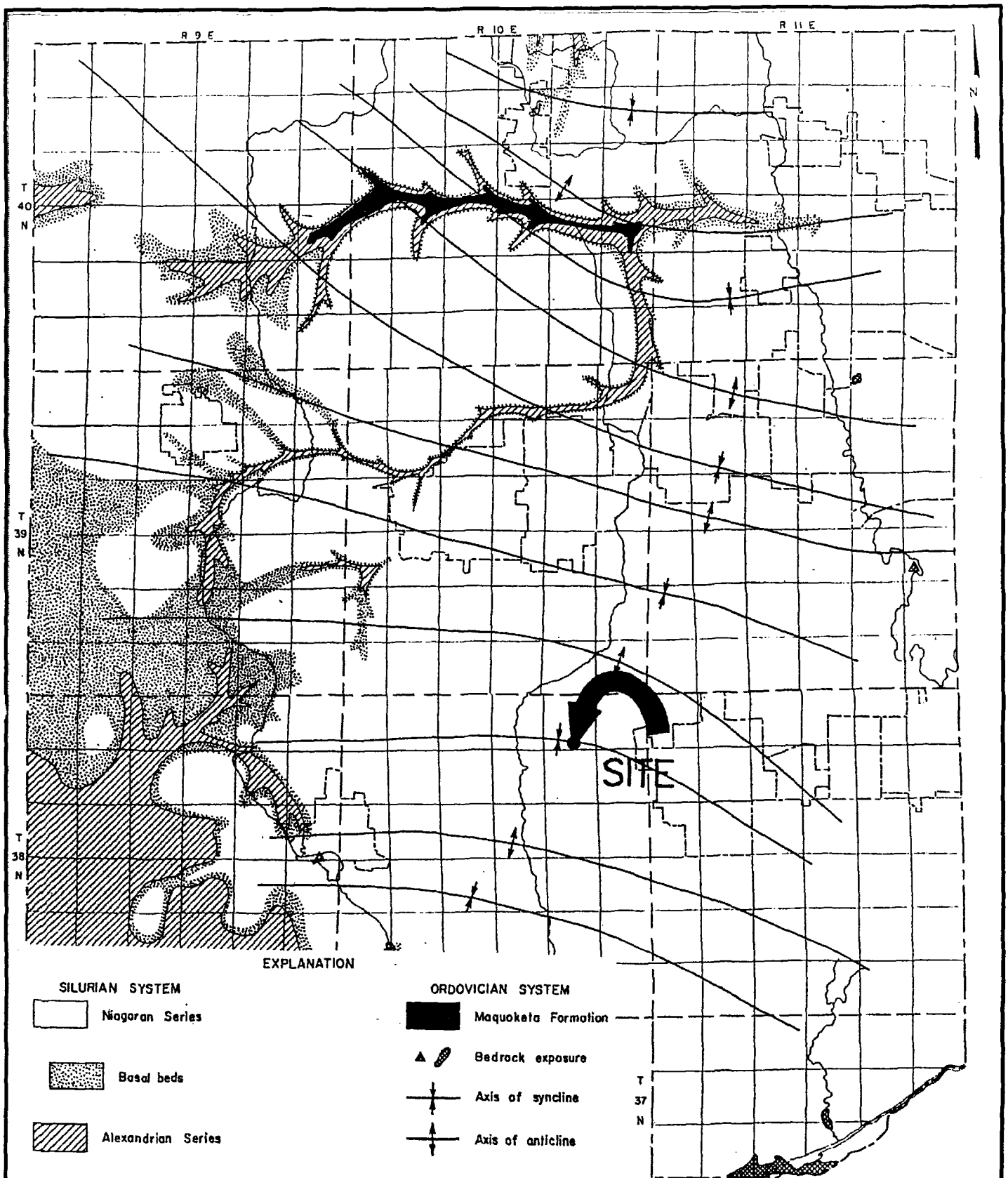
SITE LOCATION

FIGURE 6

BERG CIRCULAR MAP

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

(SOURCE OF MAP IS *ILLINOIS STATE GEOLOGICAL SURVEY*, CIRCULAR 532, PLATE 1, "POTENTIAL FOR CONTAMINATION OF SHALLOW AQUIFERS FROM LAND BURIAL OF MUNICIPAL WASTES IN ILLINOIS")



Source: GROUND WATER RESOURCES OF DUPAGE COUNTY, ILLINOIS
COOPERATIVE GROUND WATER REPORT 2 - 1962
Zeizel, etal

p:\97\9786a\figures\fig5.dc

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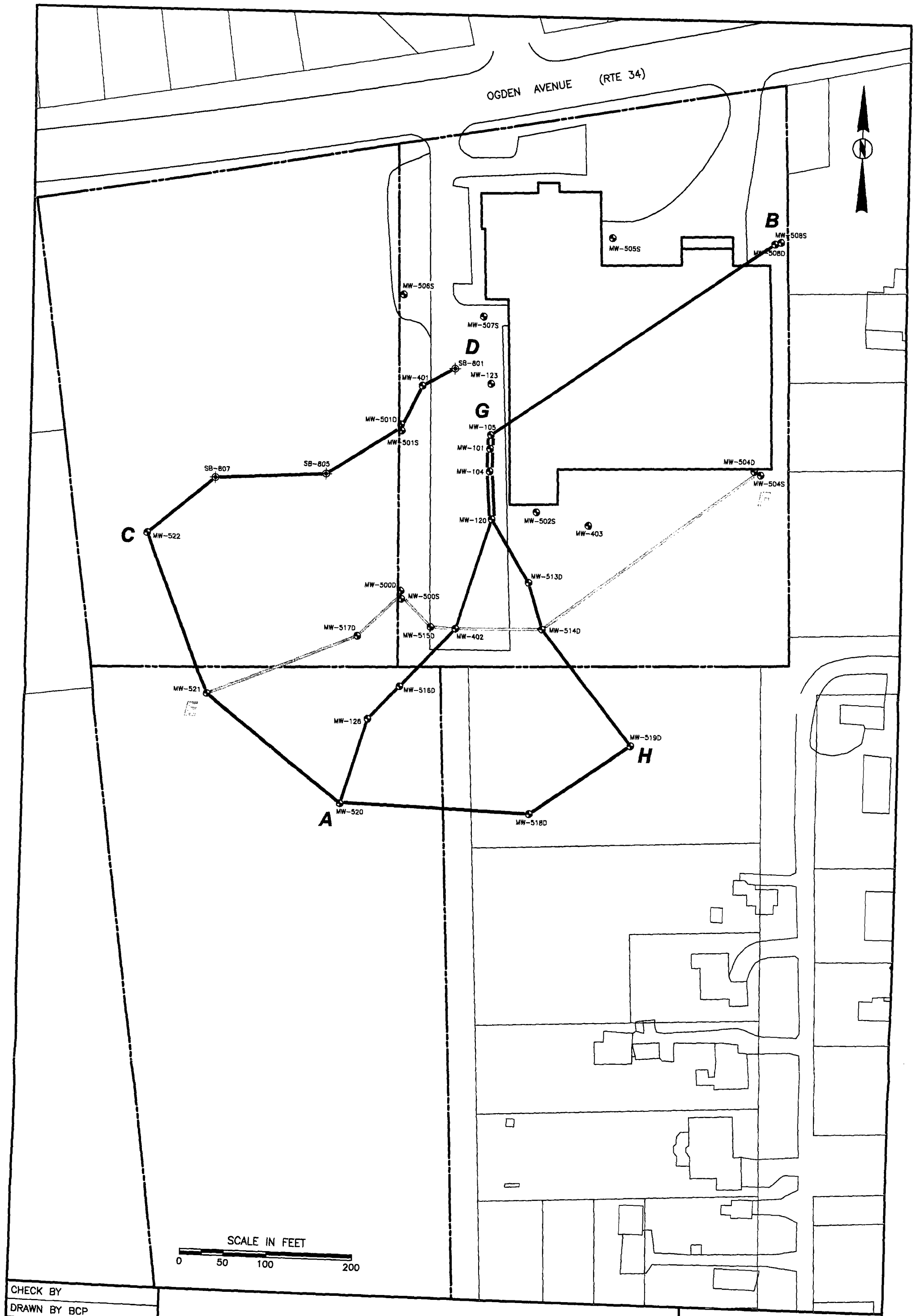
PRJ NO.	65263.01

AREAL GEOLOGY OF THE BEDROCK SURFACE MAP

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES

FIGURE 7



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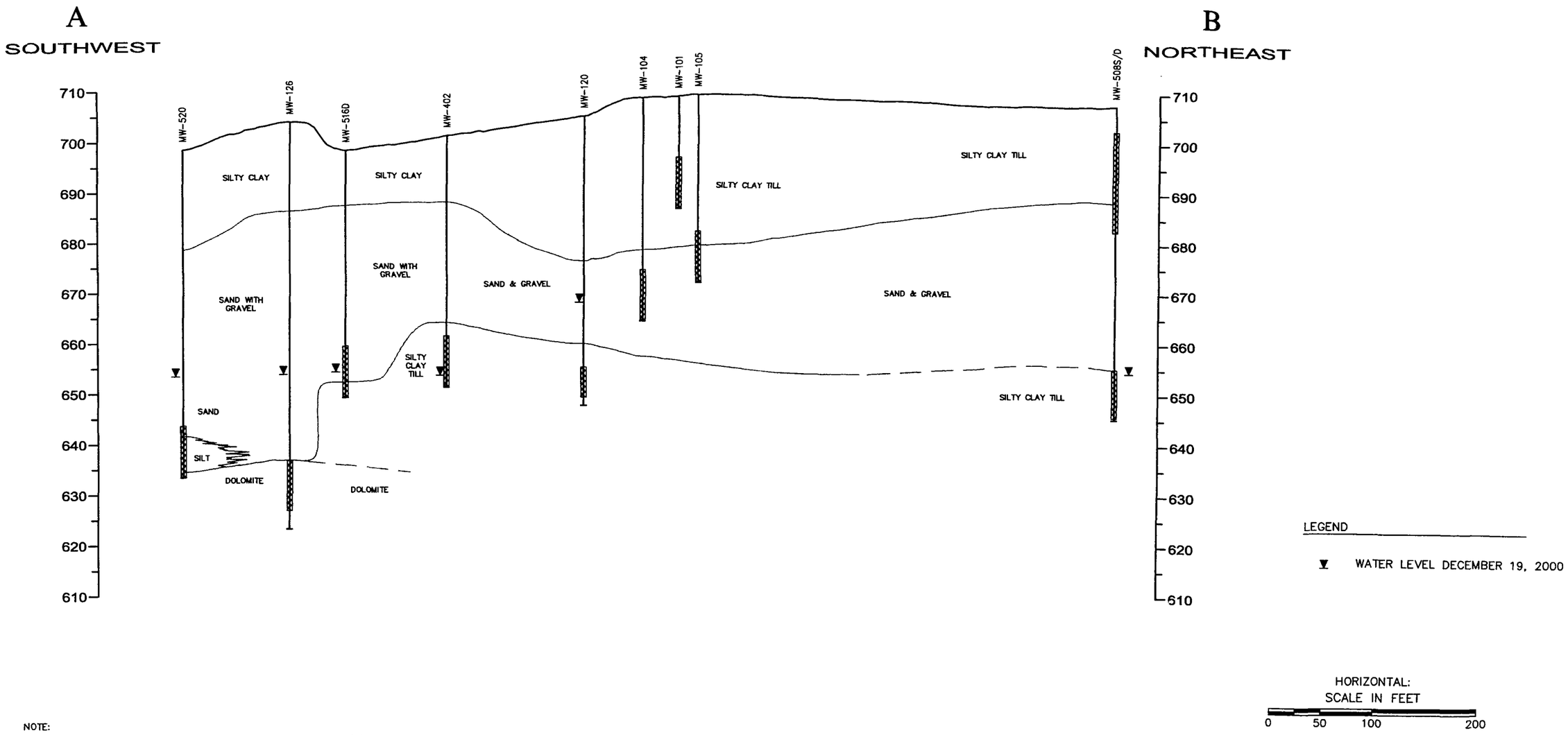
PRJ NO.	65263.01

CROSS SECTION REFERENCE MAP

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton
GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 8



NOTE:

CROSS SECTIONS ARE BASED ON BEST PROFESSIONAL JUDGMENT USING DATA AVAILABLE AT THE TIME OF CONSTRUCTION. THE GEOLOGY PRESENTED IN THIS CROSS SECTION WAS GENERALIZED TO ILLUSTRATE THE MAJOR LITHOLOGIC UNITS AT THE SITE. THE THICKNESS AND EXTENT OF THE LITHOLOGIC UNITS ARE APPROXIMATED AND GEOLOGIC CONTACTS BETWEEN BORING LOCATIONS ARE INFERRED.

Clayton
GROUP SERVICES

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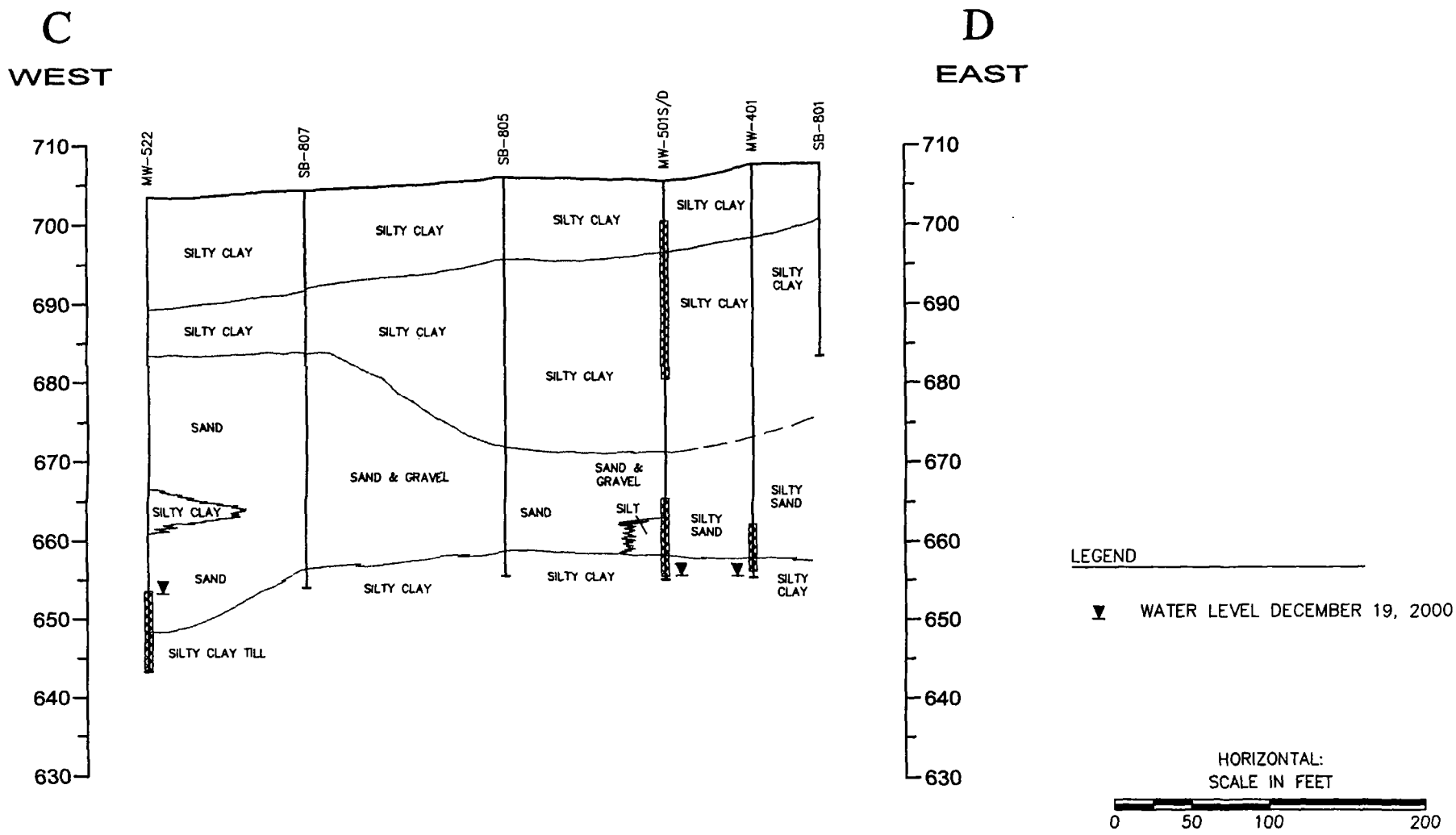
PRJ NO.	65263.01

GEOLOGIC CROSS SECTION A – B

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

FIGURE

9A



NOTE:
CROSS SECTIONS ARE BASED ON BEST PROFESSIONAL JUDGMENT USING DATA AVAILABLE AT THE TIME OF CONSTRUCTION. THE GEOLOGY PRESENTED IN THIS CROSS SECTION WAS GENERALIZED TO ILLUSTRATE THE MAJOR LITHOLOGIC UNITS AT THE SITE. THE THICKNESS AND EXTENT OF THE LITHOLOGIC UNITS ARE APPROXIMATED AND GEOLOGIC CONTACTS BETWEEN BORING LOCATIONS ARE INFERRED.

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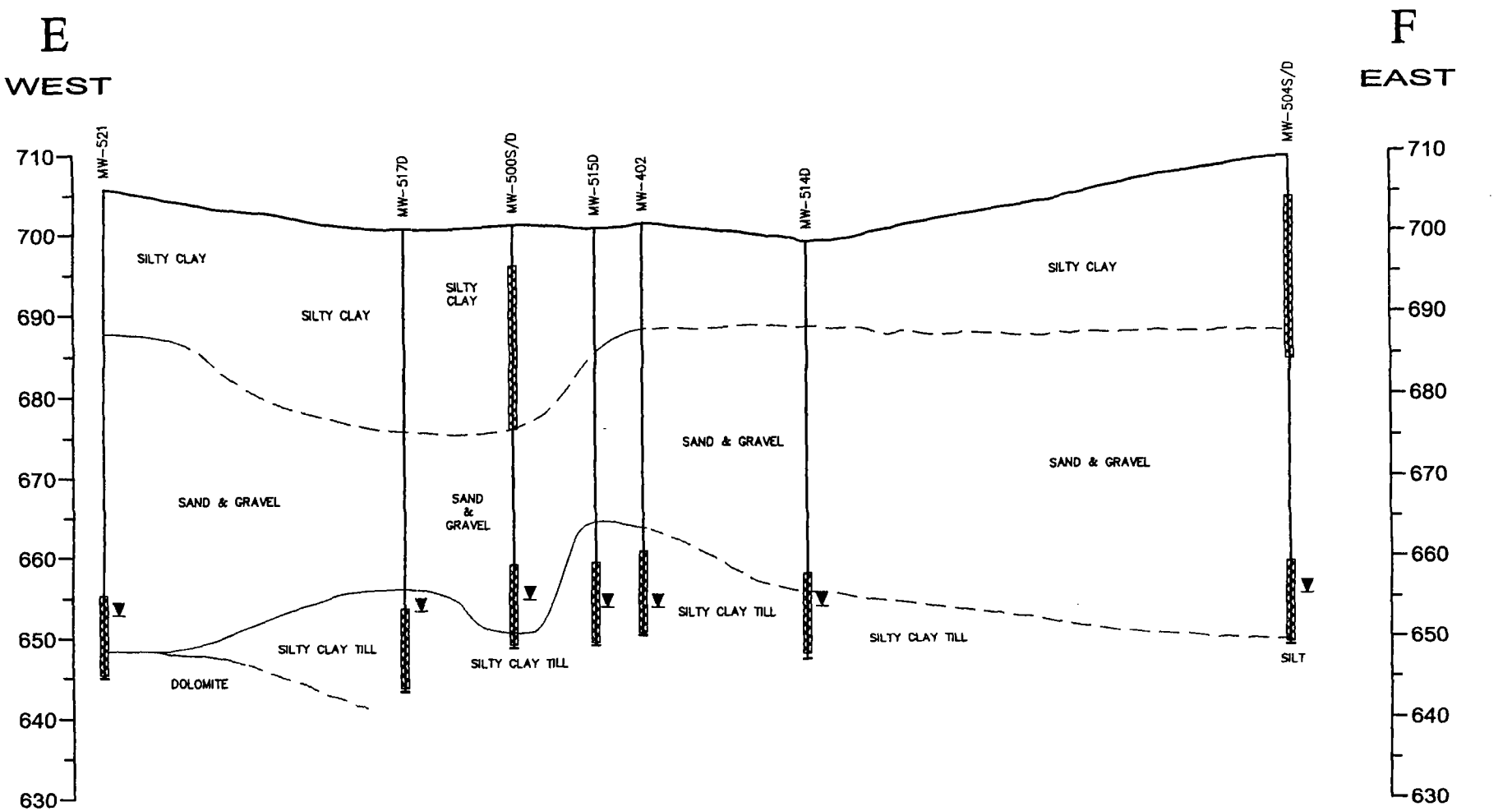
PRJ NO.	65263.01

GEOLOGIC CROSS SECTION C – D

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES

FIGURE
9B



NOTE:
CROSS SECTIONS ARE BASED ON BEST PROFESSIONAL JUDGMENT USING DATA AVAILABLE AT THE TIME OF CONSTRUCTION. THE GEOLOGY PRESENTED IN THIS CROSS SECTION WAS GENERALIZED TO ILLUSTRATE THE MAJOR LITHOLOGIC UNITS AT THE SITE. THE THICKNESS AND EXTENT OF THE LITHOLOGIC UNITS ARE APPROXIMATED AND GEOLOGIC CONTACTS BETWEEN BORING LOCATIONS ARE INFERRED.

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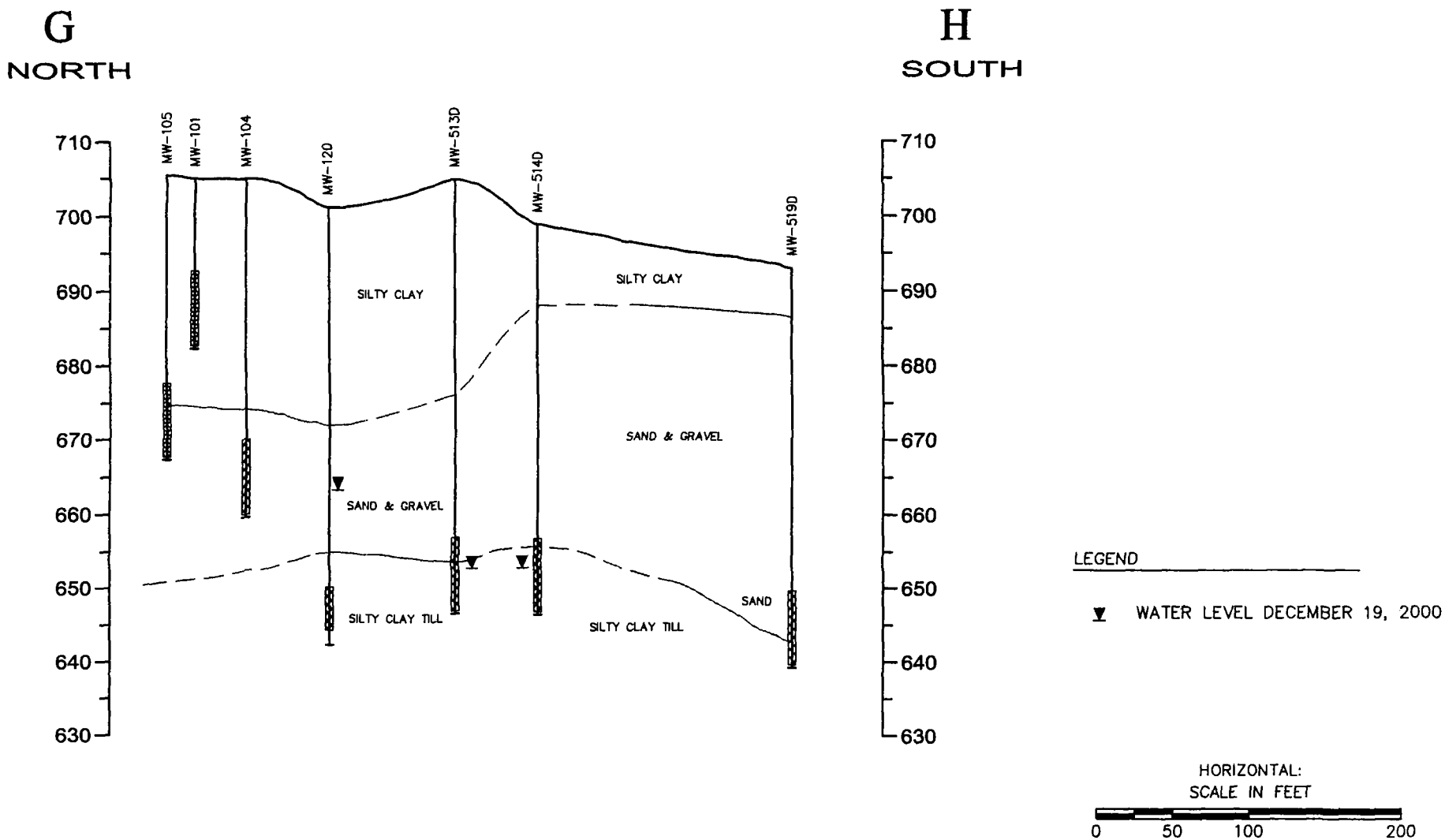
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526309C
PRJ NO.	65263.01

GEOLOGIC CROSS SECTION E – F

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES

FIGURE
9C



NOTE:

CROSS SECTIONS ARE BASED ON BEST PROFESSIONAL JUDGMENT USING DATA AVAILABLE AT THE TIME OF CONSTRUCTION. THE GEOLOGY PRESENTED IN THIS CROSS SECTION WAS GENERALIZED TO ILLUSTRATE THE MAJOR LITHOLOGIC UNITS AT THE SITE. THE THICKNESS AND EXTENT OF THE LITHOLOGIC UNITS ARE APPROXIMATED AND GEOLOGIC CONTACTS BETWEEN BORING LOCATIONS ARE INFERRED.

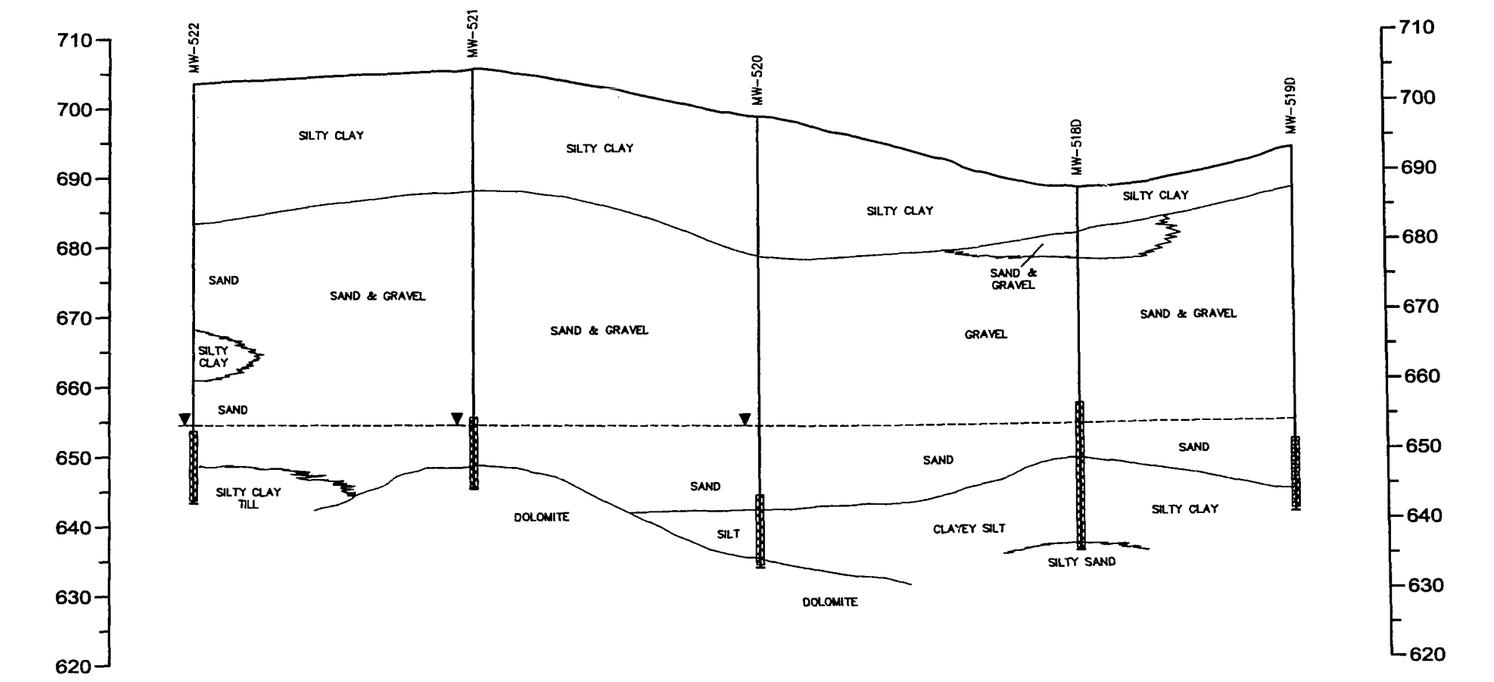
CHK BY	
DWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526309D
PRJ NO.	65263.01

GEOLOGIC CROSS SECTION G – H

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES

FIGURE
9D



LEGEND

▼ WATER LEVEL DECEMBER 19, 2000 FOR WELLS MW-522, MW-521 AND MW-520; DECEMBER 1999 FROM WELLS MW-518D AND MW-519D

HORIZONTAL:
SCALE IN FEET

0 50 100 200

NOTE:
CROSS SECTIONS ARE BASED ON BEST PROFESSIONAL JUDGMENT USING DATA AVAILABLE AT THE TIME OF CONSTRUCTION. THE GEOLOGY PRESENTED IN THIS CROSS SECTION WAS GENERALIZED TO ILLUSTRATE THE MAJOR LITHOLOGIC UNITS AT THE SITE. THE THICKNESS AND EXTENT OF THE LITHOLOGIC UNITS ARE APPROXIMATED AND GEOLOGIC CONTACTS BETWEEN BORING LOCATIONS ARE INFERRED.

Clayton
GROUP SERVICES

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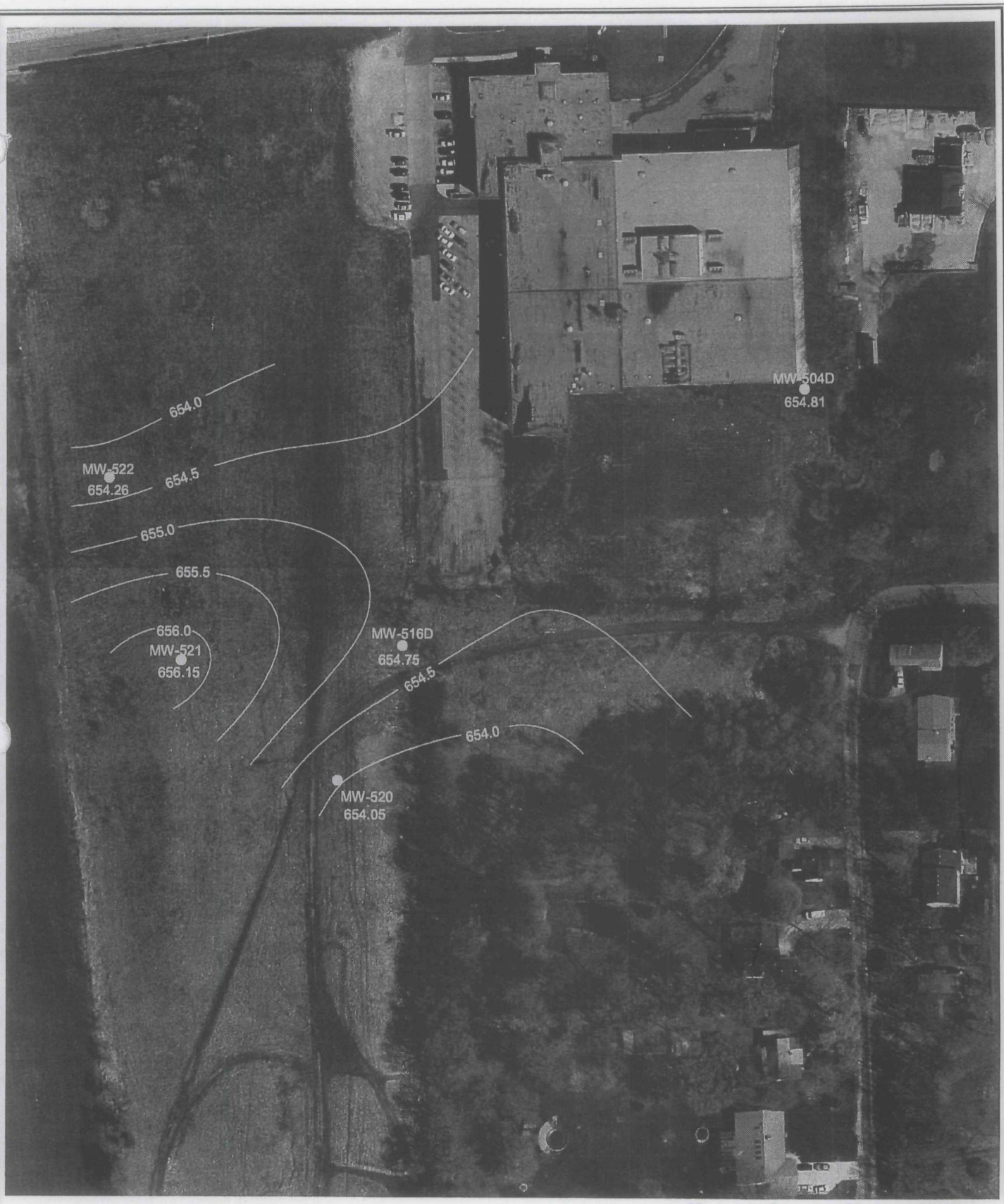
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526309E
PRJ NO.	65263.01

GEOLOGIC CROSS SECTION C - H

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

FIGURE
9E



80 0 80 160 Feet

LEGEND

Potentiometric Surface Contour Line

Monitoring Well Location

656.15 Static Water Level (11/00)

NOTE:

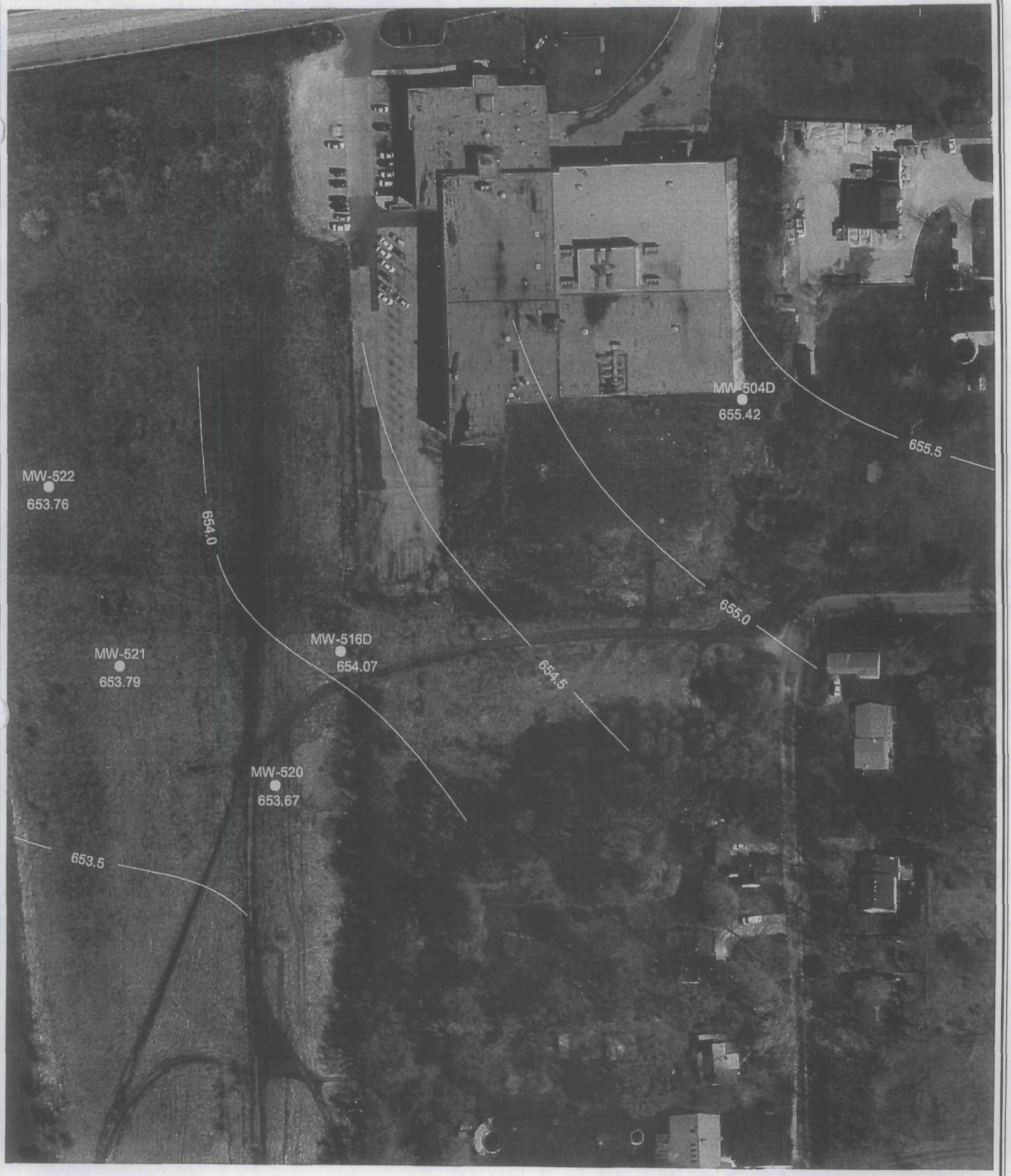
Potentiometric Surface Based on Survey of Monitoring Wells Completed January 5, 2001. Aerial Photo data: April 1998 Dupage County, Illinois

Map is Illinois State Plane East, NAD 83, Foot.

POTENTIOMETRIC SURFACE MAP
OF
GLACIOFLUVIAL SEDIMENTS
NOVEMBER, 2000

N

FIGURE 10



80 0 80 160 Feet

LEGEND

Potentiometric Surface Contour Line

Monitoring Well Location

653.67 Static Water Level (12/00)

NOTE:

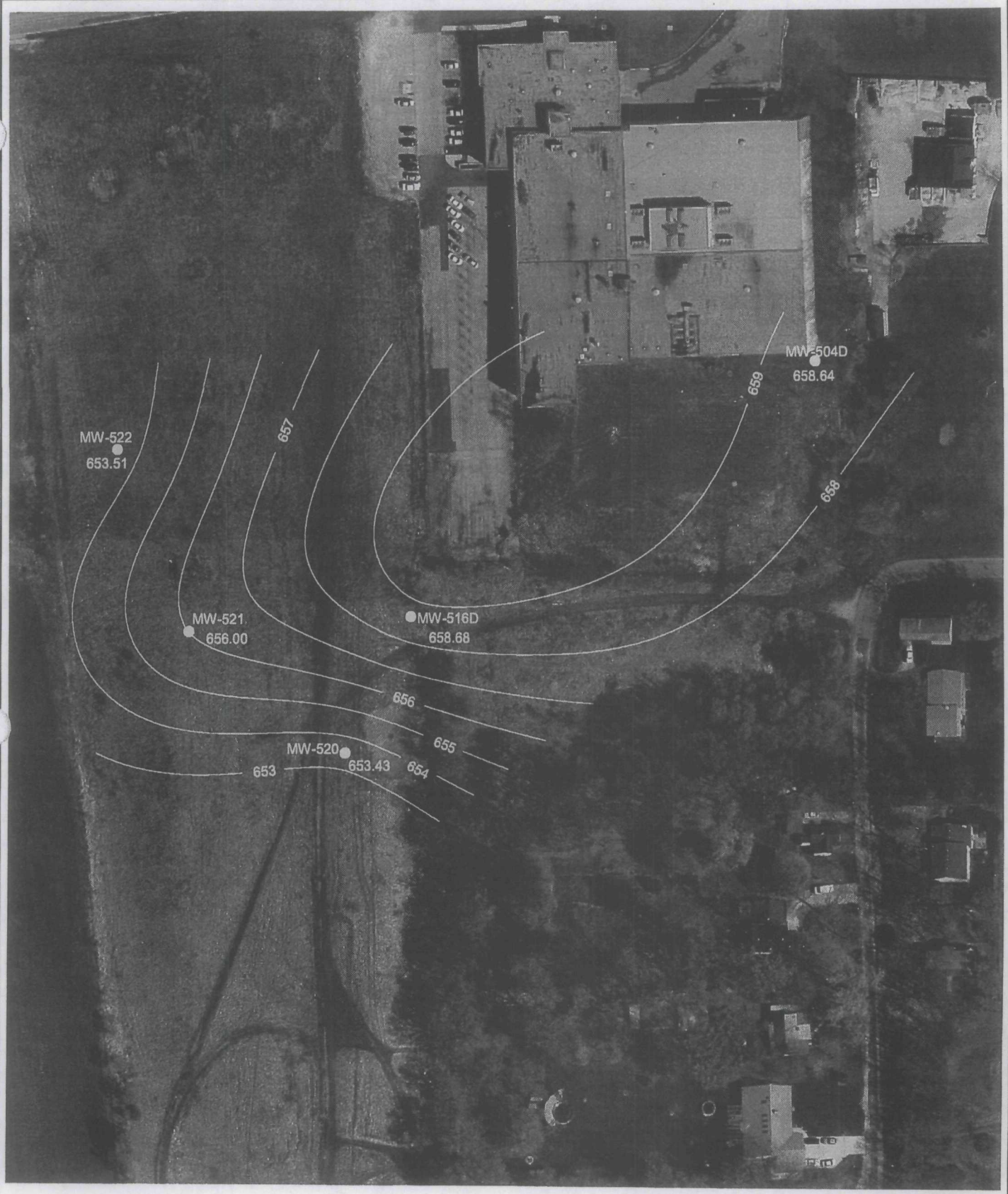
Potentiometric Surface Based on Survey of Monitoring Wells Completed January 5, 2001. Aerial Photo date: April 1998, Dupage County, Illinois.

Map is Illinois State Plane East, NAD 83, Foot.

POTENTIOMETRIC SURFACE MAP
OF
GLACIOFLUVIAL SEDIMENTS
DECEMBER, 2000

N

FIGURE 11



80 0 80 160 Feet

LEGEND

Potentiometric Surface Contour Line

Monitoring Well Location

653.43 Static Water Level (1/11/01)

NOTE:

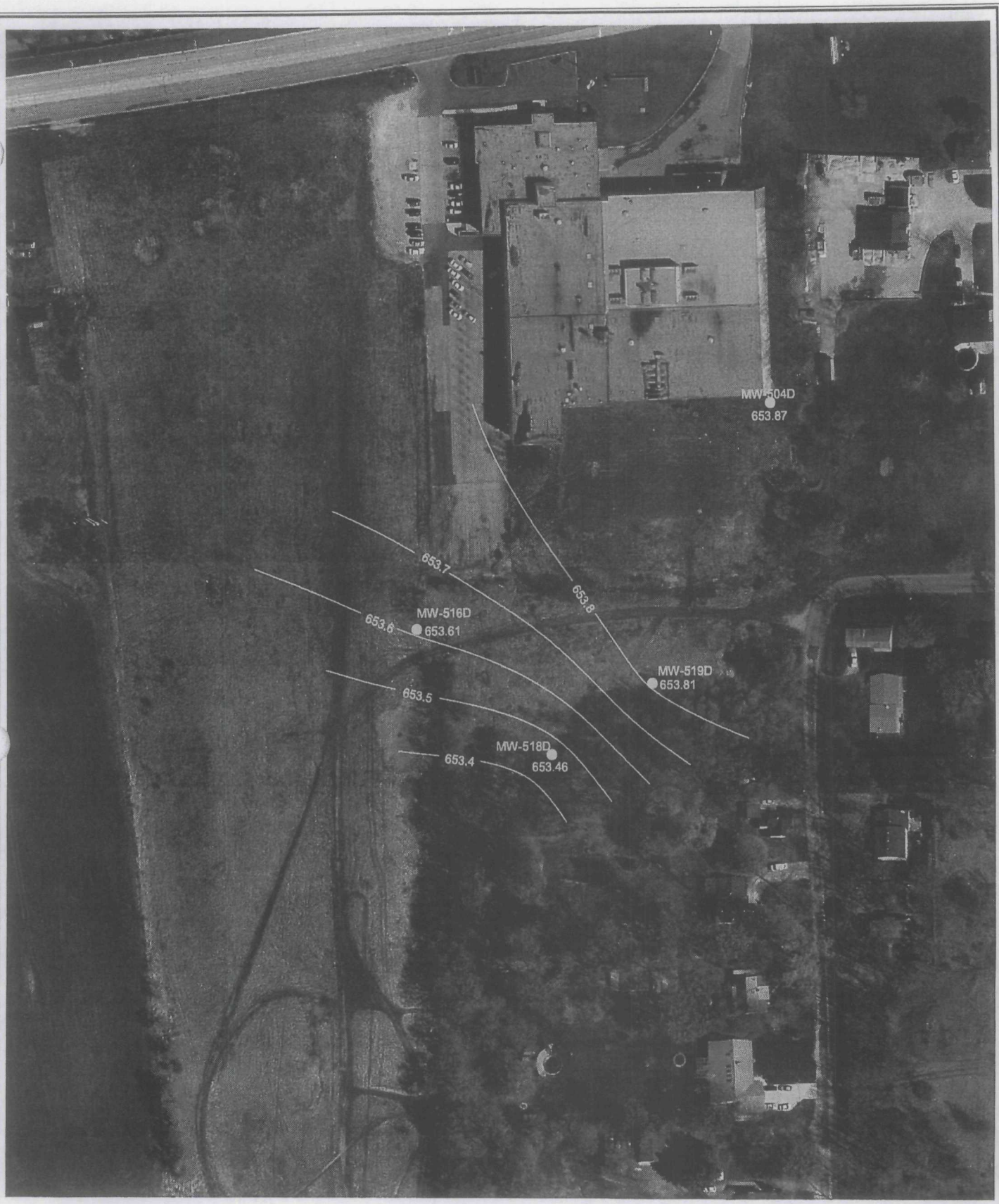
Potentiometric Surface Based on Survey of Monitoring Wells Completed January 5, 2001. Aerial Photo date: April 1998 Dupage County, Illinois.

Map is Illinois State Plane, East, NAD 83, Foot.

POTENTIOMETRIC SURFACE MAP
OF
GLACIOFLUVIAL SEDIMENTS
JANUARY, 2001

N

FIGURE 12



80 0 80 160 Feet

LEGEND

Potentiometric Surface Contour Line

Monitoring Well Location

653.46 Static Water Level (12/99)

NOTE:

Potentiometric Surface Based on Survey of Monitoring Wells Completed January 5, 2001. Aerial Photo date: April 1998 Dupage County, Illinois

Map is Illinois State Plane, East, NAD 83, Foot.

POTENTIOMETRIC SURFACE MAP
OF
GLACIOFLUVIAL SEDIMENTS
DECEMBER 1999

N

FIGURE 13

Legend

Location of Potable Water Well (Well Record Available)

Location of Potable Water Well (No Well Record Available)

CURRENTLY PLOTABLE DRINKING WATER WELLS BASED ON AVAILABLE INFORMATION (T38N, R10E, SEC 2 &11)

NOTE:

Well Logs obtained from the Illinois State Geological Survey and the Illinois State Water Survey. Date of Aerial Photo is April 1998, Dupage County, Illinois.

Map is Illinois State Plane East, NAD 83, Foot.

LOCKFORMER, INC.
711 OGDEN AVENUE
LISLE, ILLINOIS

FIGURE 14

OGDEN AVENUE (RT. 34)

N

GRASS

ASPHALT DRIVE

ASPHALT DRIVE

CB

ON-SITE WELL

WATER RESEVOIR

MH

BSMT SUMP DRAIN

GRASS

WATER

MH

OFFICE

AD

CB

CB

ELECTRIC

TRANSFORMER

GAS

MH

MH

FACTORY

WATER

MH

SANITARY

GRASS / WEEDS

STORM SEWER

STORM SEWER

HEADWALL

LEGEND

AD - AREA DRAIN

CB - CATCH BASIN

MH - SANITARY / STORM MANHOLE

STORM SEWER

SANITARY SEWER

WATER

GAS

ELECTRIC

p:\97\9786c\figures\utilities.dc

CARLSON ENVIRONMENTAL, INC.

65 EAST WACKER PLACE
CHICAGO, ILLINOIS
(312) 346-2140

SCALE IN FEET

0 60

UTILITIES MAP

711 OGDEN AVENUE
LISLE, ILLINOIS

DRAWN: LPM	CHKD:	SCALE: As Shown	FIGURE: 15
DATE: 11/17/98	DATE:	PN#: 9786A	

OGDEN AVENUE (RT. 34)

N

GRASS

ASPHALT DRIVE

ASPHALT DRIVE

CB

ON-SITE WELL

WATER RESEVOIR

MH

GRASS

BSMT SUMP DRAIN

MH

TS-8

TS-9

OFFICE

TS-10

CB

AD

CB

LOCKFORMER

TRANSFORMER

TS-11

TS-12

MH

TS-7

MH

TS-6

FACTORY

ASPHALT PARKING

MH

TS-4

TS-3

TS-5

GRASS / WEEDS

HEADWALL

TS-2

TS-1

LEGEND

AD - AREA DRAIN

CB - CATCH BASIN

MH - SANITARY / STORM MANHOLE

TS-2 TRENCH SAMPLING LOCATION

STORM SEWER

SANITARY SEWER

WATER

GAS

ELECTRIC

p:\97\9786c\figures\trench.dc

CARLSON ENVIRONMENTAL, INC.

65 EAST WACKER PLACE
CHICAGO, ILLINOIS
(312) 346-2140

SCALE IN FEET

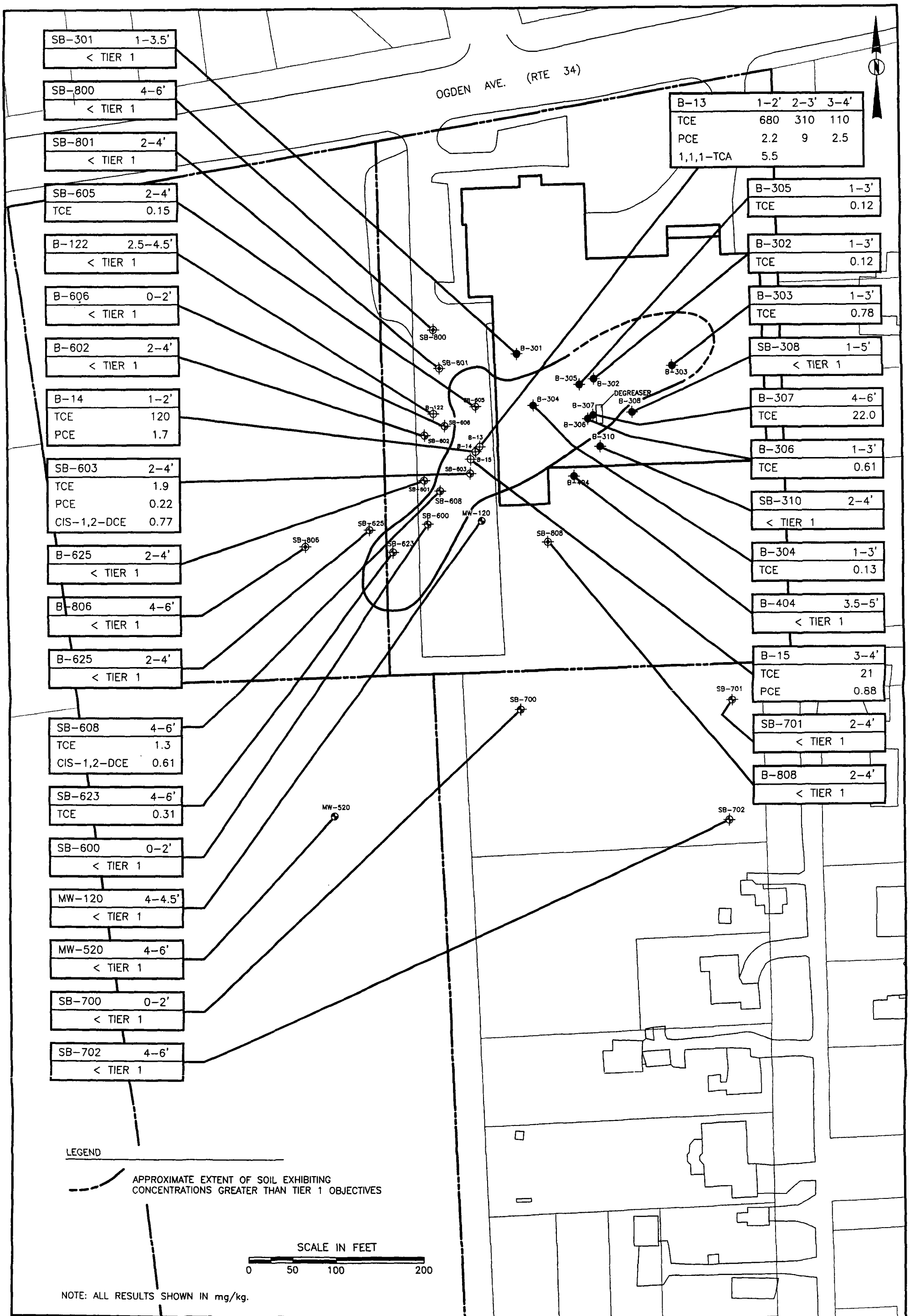
0 60

TRENCH SAMPLE LOCATION MAP

711 OGDEN AVENUE

LISLE, ILLINOIS

DRAWN: LPM	CHKD:	SCALE: As Shown	FIGURE: 16
DATE: 11/17/98	DATE:	PN#: 9786A	



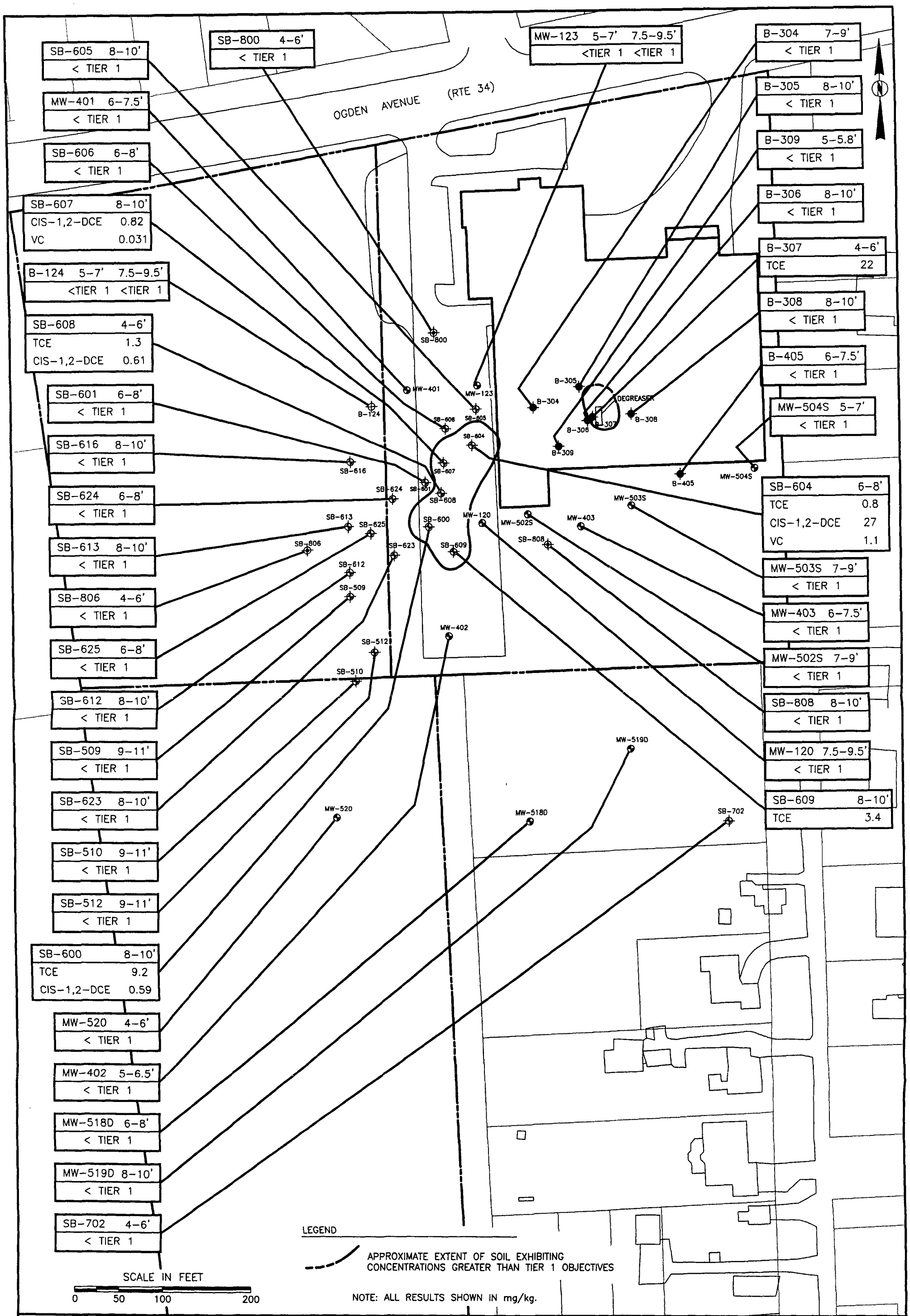
CHECK BY	
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526317A
PRJ NO.	65263.01

SOIL SAMPLES IN THE 0-5' DEPTH INTERVAL

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 17A



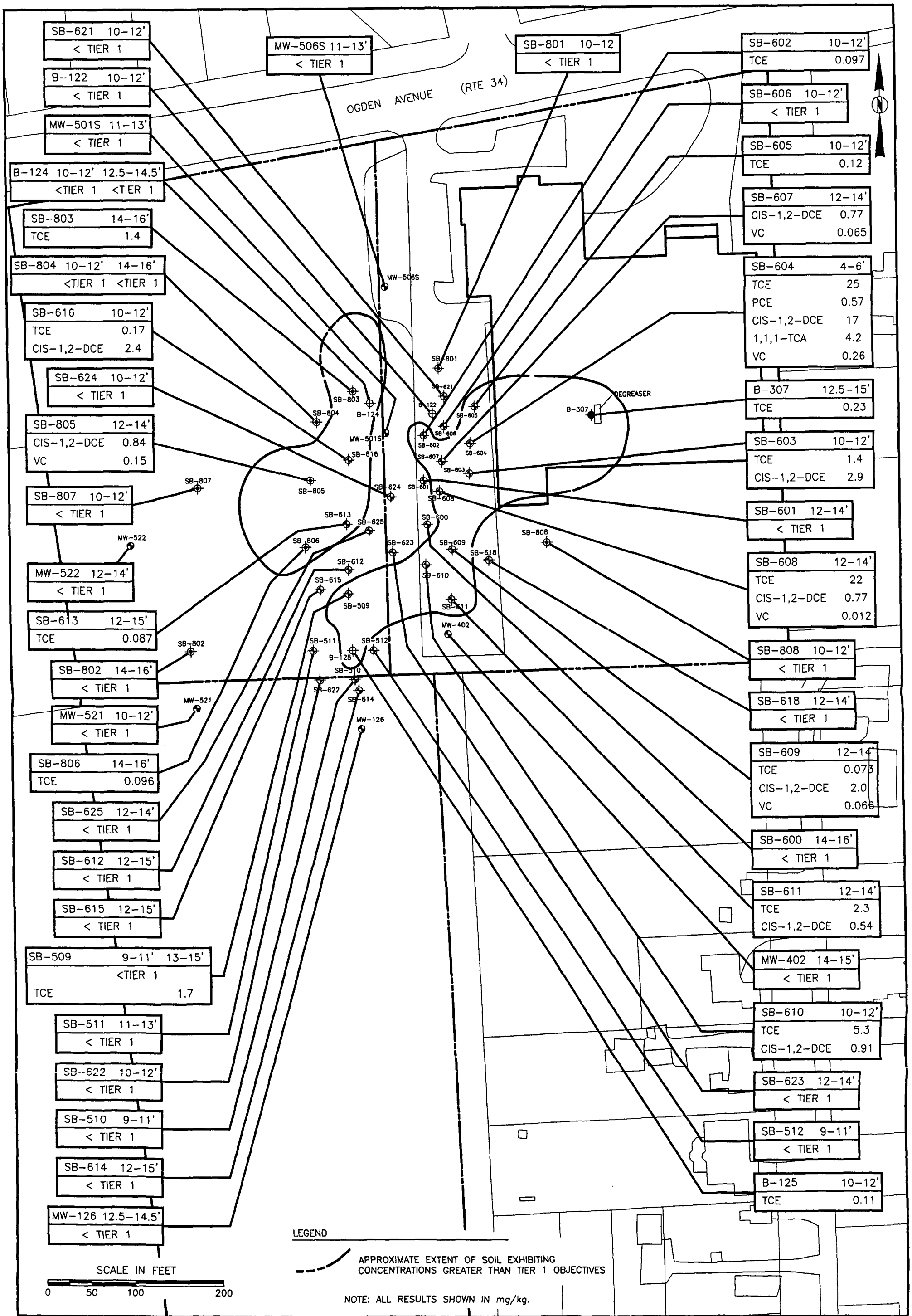
CHECK BY	
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526317B
PRJ NO.	65263.01

SOIL SAMPLES IN THE 5-10' DEPTH INTERVAL

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton
GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 17B



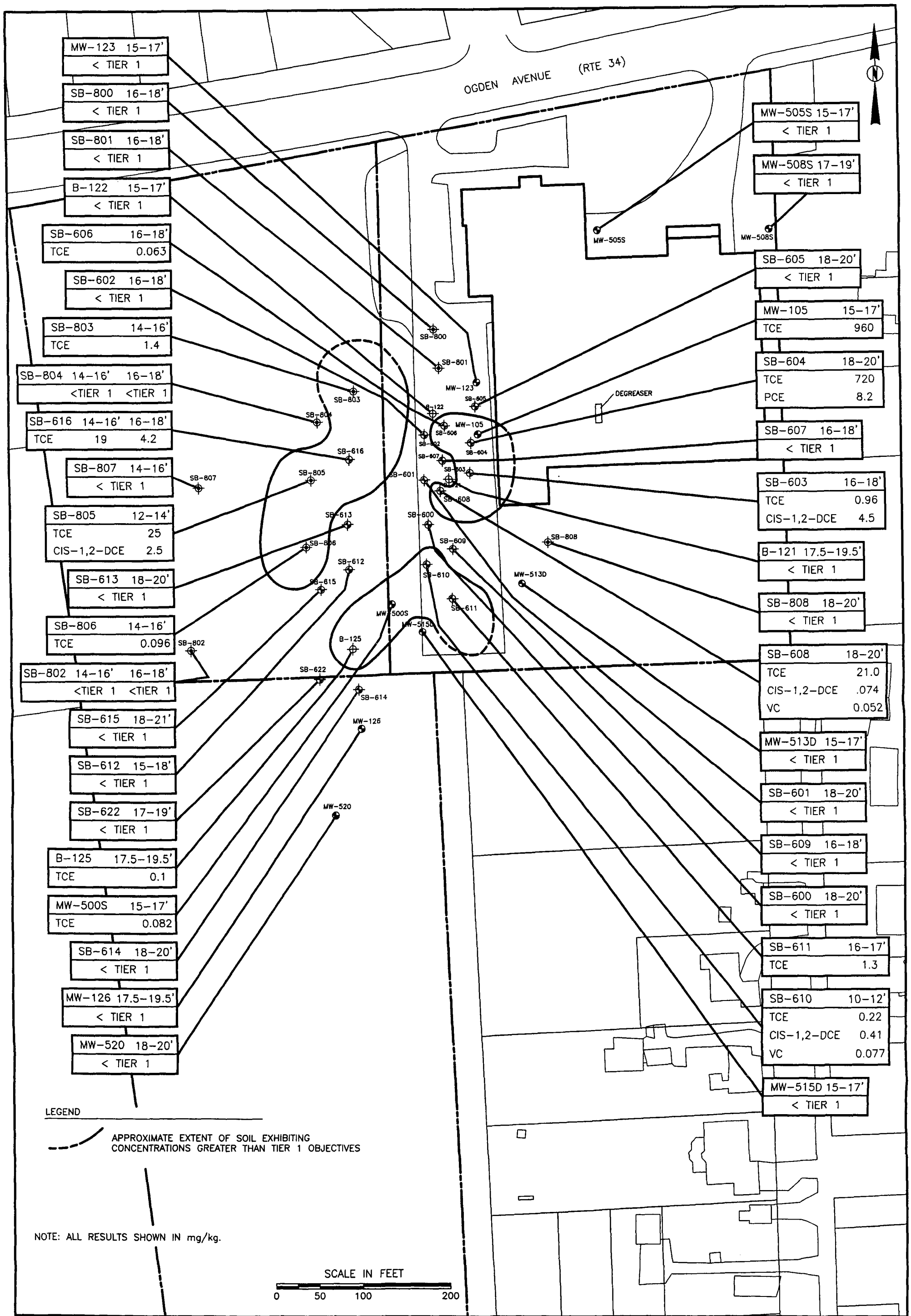
CHECK BY	
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526317C
PRJ NO.	65263.01

SOIL SAMPLES IN THE 10-15' DEPTH INTERVAL

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 17C



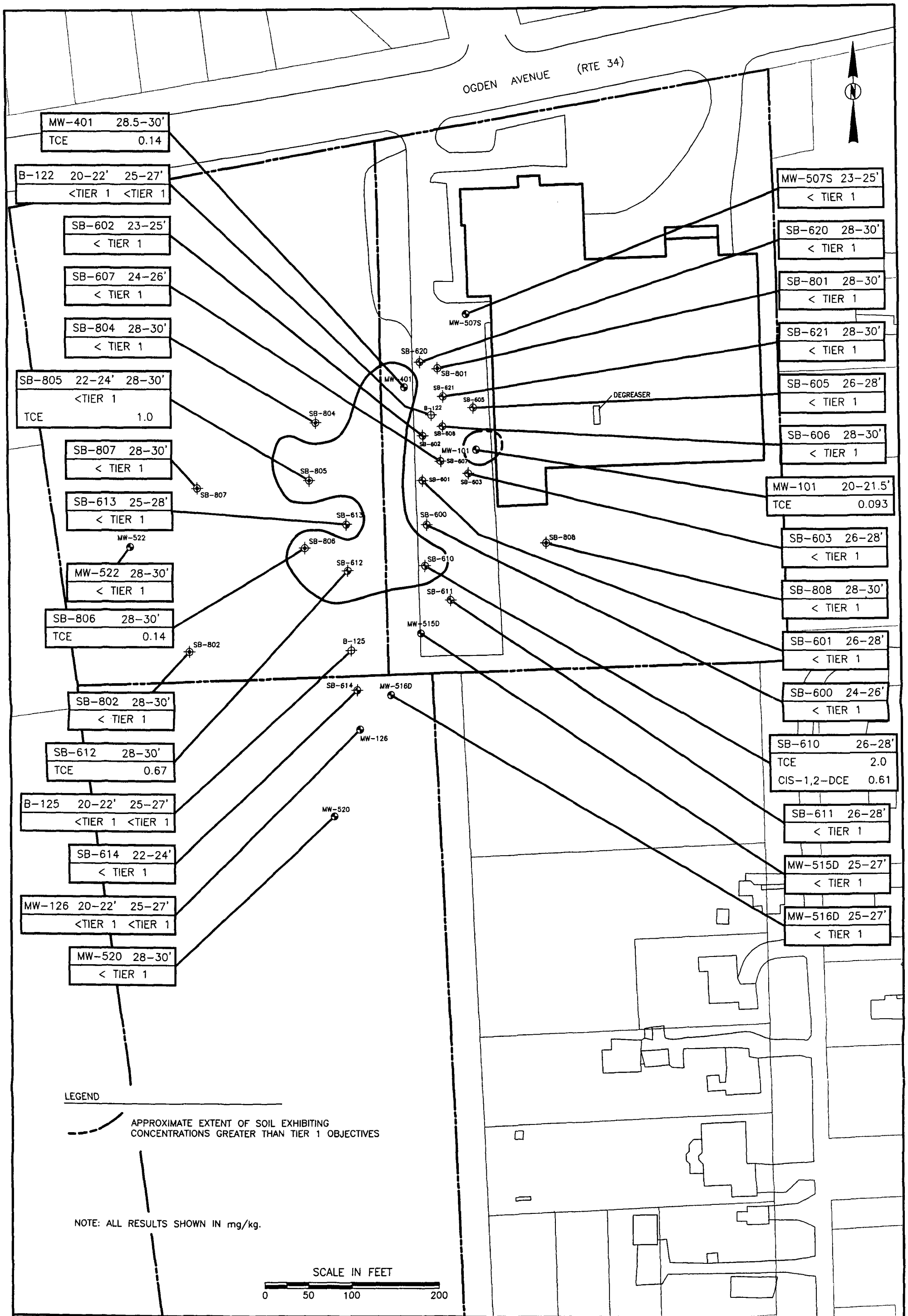
CHECK BY	
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526317D
PRJ NO.	65263.01

SOIL SAMPLES IN THE 15-20' DEPTH INTERVAL

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 17D



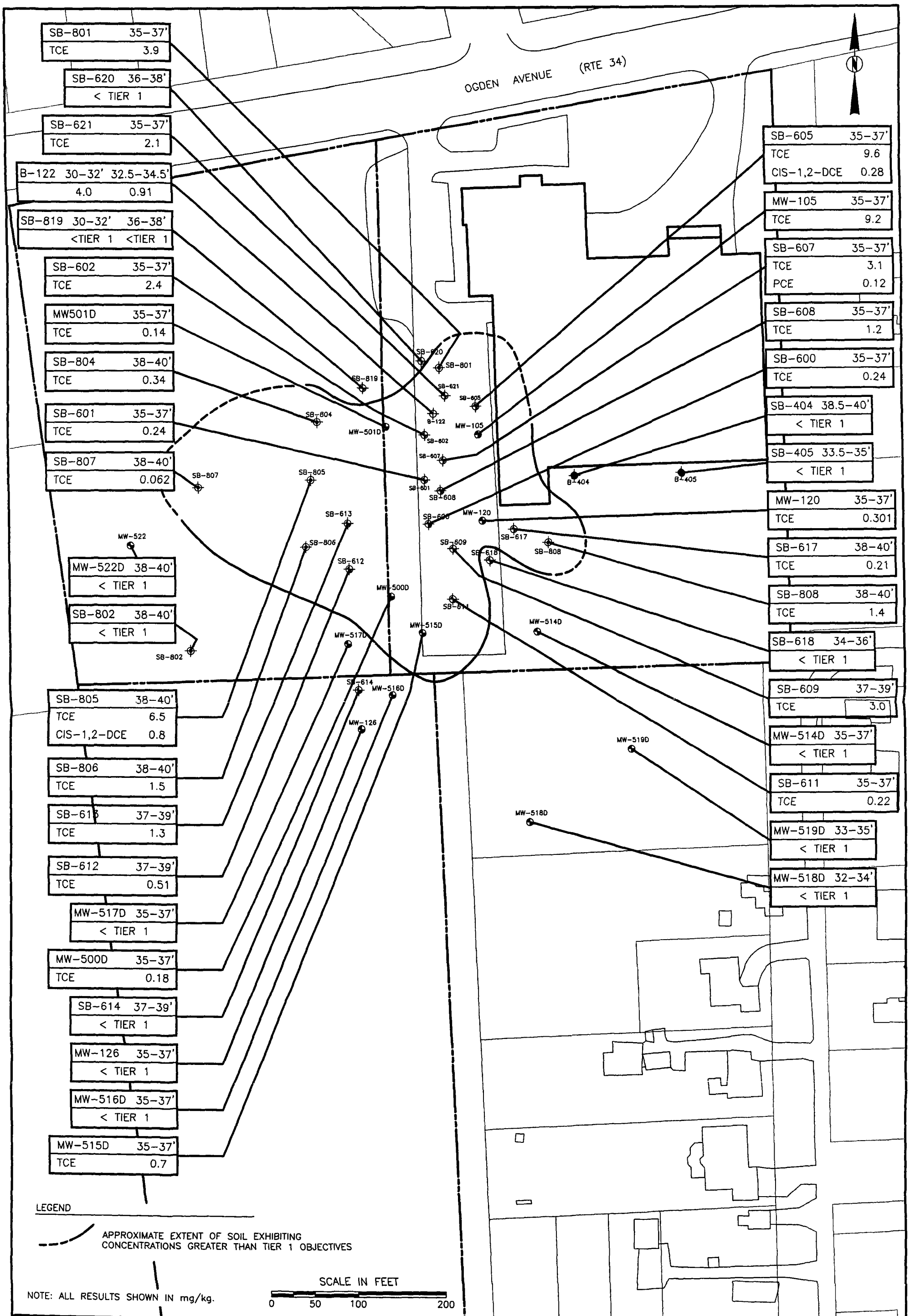
CHECK BY	
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526317E
PRJ NO.	65263.01

SOIL SAMPLES IN THE 20-30' DEPTH INTERVAL

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 17E



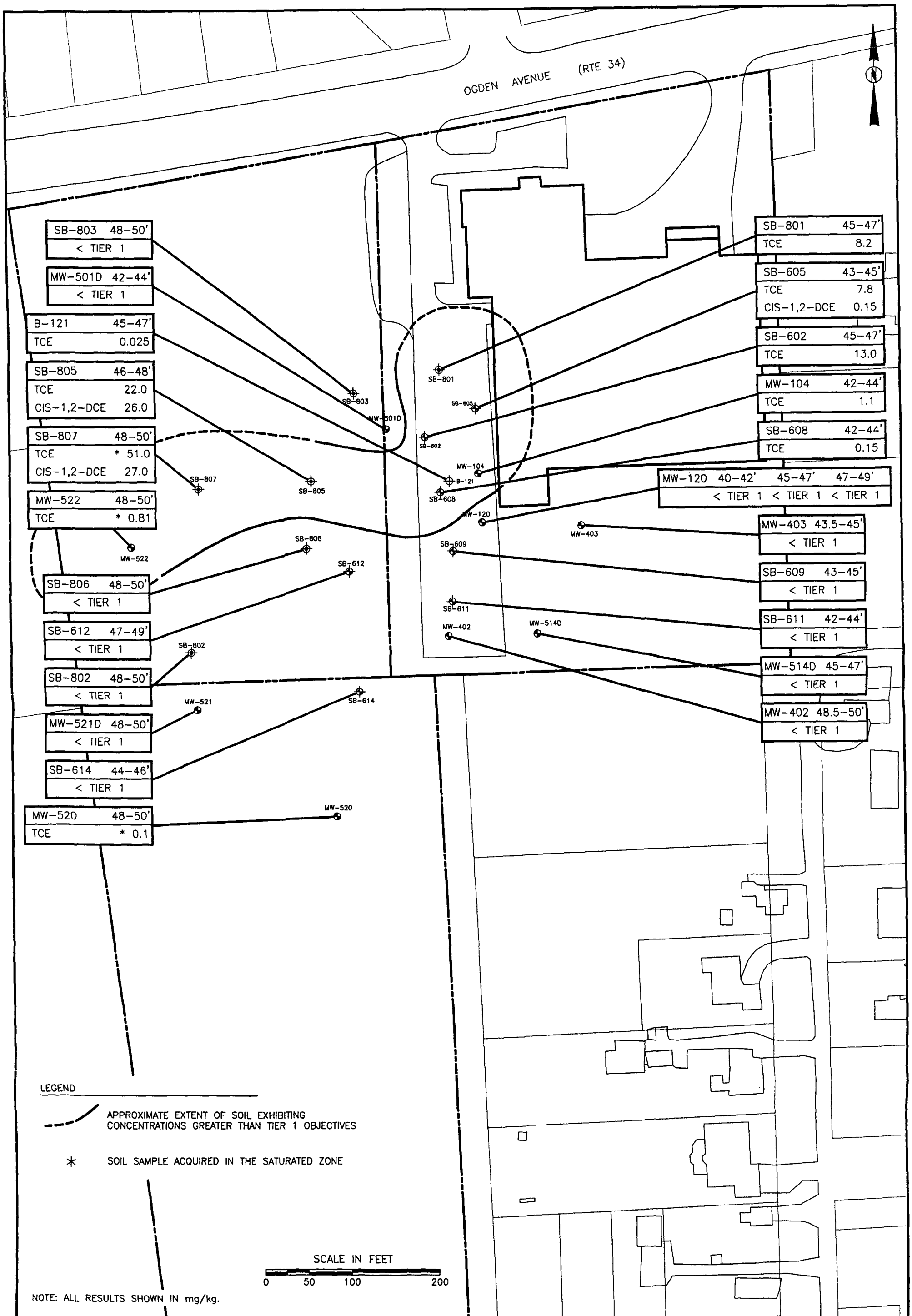
CHECK BY	
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526317F
PRJ NO.	65263.01

SOIL SAMPLES IN THE 30-40' DEPTH INTERVAL

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 17F



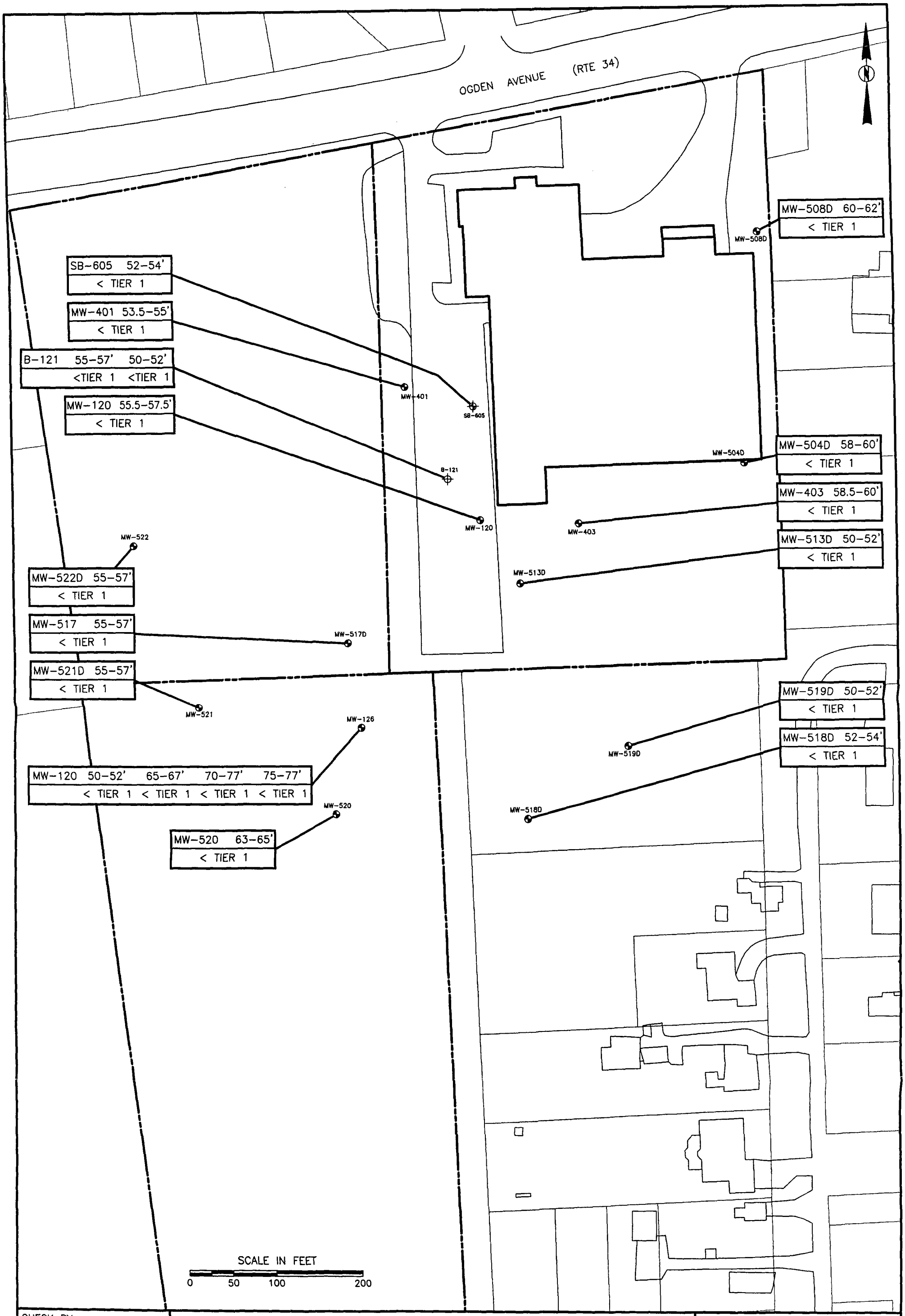
CHECK BY	
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526317G
PRJ NO.	65263.01

SOIL SAMPLES IN THE 40-50' DEPTH INTERVAL

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 17G



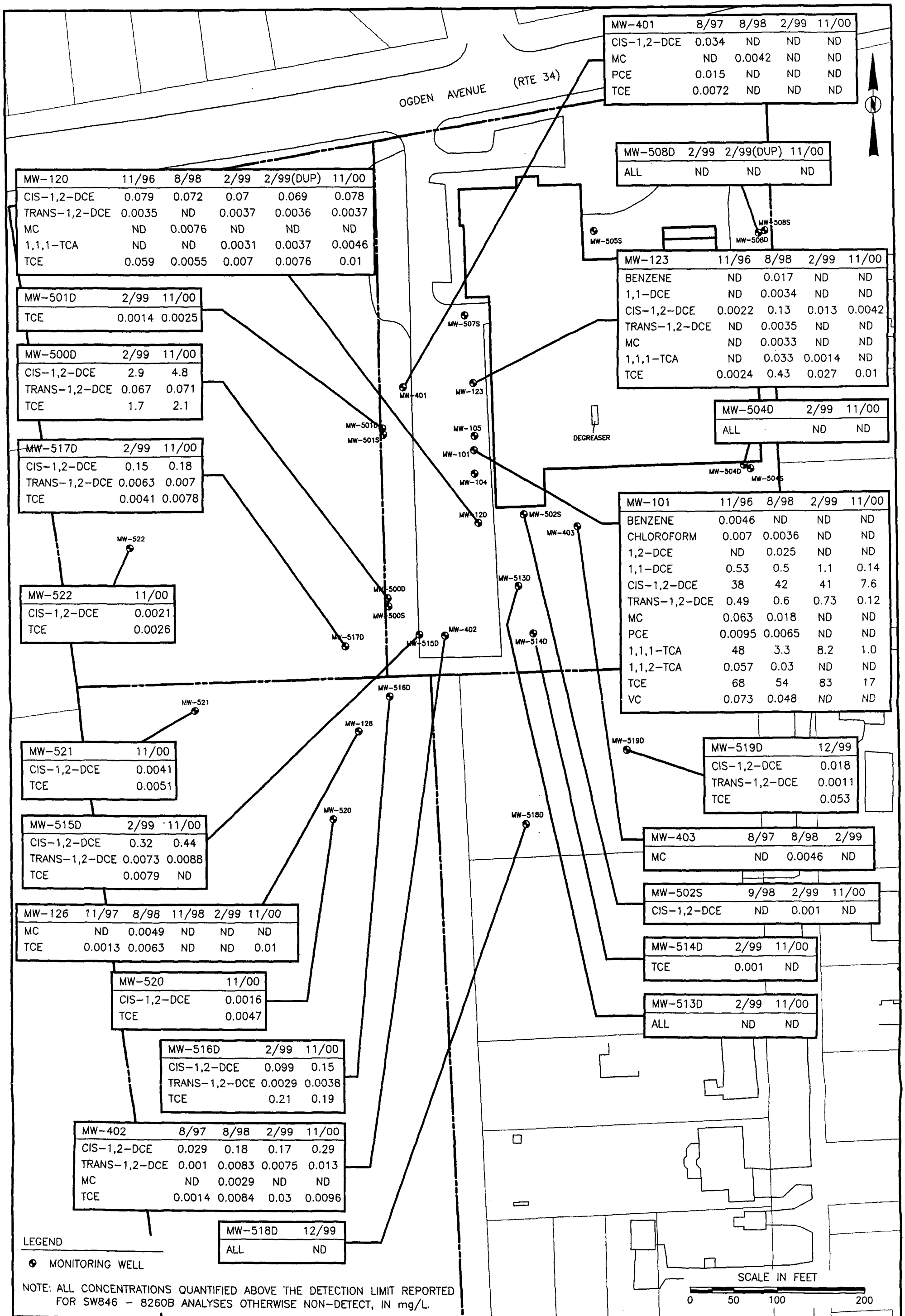
CHECK BY	
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526317H
PRJ NO.	65263.01

SOIL SAMPLES IN THE OVER 50' DEPTH INTERVAL

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton
GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 17H



MW-401	8/97	8/98	2/99	11/00
CIS-1,2-DCE	0.034	ND	ND	ND
MC	ND	0.0042	ND	ND
PCE	0.015	ND	ND	ND
TCE	0.0072	ND	ND	ND

MW-508D	2/99	2/99(DUP)	11/00
ALL	ND	ND	ND

MW-120	11/96	8/98	2/99	2/99(DUP)	11/00
CIS-1,2-DCE	0.079	0.072	0.07	0.069	0.078
TRANS-1,2-DCE	0.0035	ND	0.0037	0.0036	0.0037
MC	ND	0.0076	ND	ND	ND
1,1,1-TCA	ND	ND	0.0031	0.0037	0.0046
TCE	0.059	0.0055	0.007	0.0076	0.01

MW-123	11/96	8/98	2/99	11/00
BENZENE	ND	0.017	ND	ND
1,1-DCE	ND	0.0034	ND	ND
CIS-1,2-DCE	0.0022	0.13	0.013	0.0042
TRANS-1,2-DCE	ND	0.0035	ND	ND
MC	ND	0.0033	ND	ND
1,1,1-TCA	ND	0.033	0.0014	ND
TCE	0.0024	0.43	0.027	0.01

MW-501D	2/99	11/00
TCE	0.0014	0.0025

MW-500D	2/99	11/00
CIS-1,2-DCE	2.9	4.8
TRANS-1,2-DCE	0.067	0.071
TCE	1.7	2.1

MW-504D	2/99	11/00
ALL	ND	ND

MW-517D	2/99	11/00
CIS-1,2-DCE	0.15	0.18
TRANS-1,2-DCE	0.0063	0.007
TCE	0.0041	0.0078

MW-101	11/96	8/98	2/99	11/00
BENZENE	0.0046	ND	ND	ND
CHLOROFORM	0.007	0.0036	ND	ND
1,2-DCE	ND	0.025	ND	ND
1,1-DCE	0.53	0.5	1.1	0.14
CIS-1,2-DCE	38	42	41	7.6
TRANS-1,2-DCE	0.49	0.6	0.73	0.12
MC	0.063	0.018	ND	ND
PCE	0.0095	0.0065	ND	ND
1,1,1-TCA	48	3.3	8.2	1.0
1,1,2-TCA	0.057	0.03	ND	ND
TCE	68	54	83	17
VC	0.073	0.048	ND	ND

MW-522	11/00
CIS-1,2-DCE	0.0021
TCE	0.0026

MW-521	11/00
CIS-1,2-DCE	0.0041
TCE	0.0051

MW-519D	12/99
CIS-1,2-DCE	0.018
TRANS-1,2-DCE	0.0011
TCE	0.053

MW-515D	2/99	11/00
CIS-1,2-DCE	0.32	0.44
TRANS-1,2-DCE	0.0073	0.0088
TCE	0.0079	ND

MW-403	8/97	8/98	2/99
MC	ND	0.0046	ND

MW-502S	9/98	2/99	11/00
CIS-1,2-DCE	ND	0.001	ND

MW-126	11/97	8/98	11/98	2/99	11/00
MC	ND	0.0049	ND	ND	ND
TCE	0.0013	0.0063	ND	ND	0.01

MW-514D	2/99	11/00
TCE	0.001	ND

MW-520	11/00
CIS-1,2-DCE	0.0016
TCE	0.0047

MW-513D	2/99	11/00
ALL	ND	ND

MW-516D	2/99	11/00
CIS-1,2-DCE	0.099	0.15
TRANS-1,2-DCE	0.0029	0.0038
TCE	0.21	0.19

MW-402	8/97	8/98	2/99	11/00
CIS-1,2-DCE	0.029	0.18	0.17	0.29
TRANS-1,2-DCE	0.001	0.0083	0.0075	0.013
MC	ND	0.0029	ND	ND
TCE	0.0014	0.0084	0.03	0.0096

MW-518D	12/99
ALL	ND

LEGEND

● MONITORING WELL

NOTE: ALL CONCENTRATIONS QUANTIFIED ABOVE THE DETECTION LIMIT REPORTED FOR SW846 – 8260B ANALYSES OTHERWISE NON-DETECT, IN mg/L.

CHECK BY	
DRAWN BY	BCP
DATE	1-25-01
SCALE	AS SHOWN
CAD NO.	6526301D
PRJ NO.	65263.01

VOLATILE ORGANIC COMPOUNDS OBSERVED
ABOVE THE DETECTION LIMIT IN GROUNDWATER

THE LOCKFORMER COMPANY
711 OGDEN AVENUE
LISLE, ILLINOIS

Clayton
GROUP SERVICES
3140 FINLEY ROAD, DOWNERS GROVE, IL 60515

FIGURE 18

TABLES

TABLE 1
Summary of Investigations / Sampling

Lockformer / Lisle, Illinois

DATE	DESCRIPTION	SAMPLING	RECOMMENDATIONS
Fall 1991	Impacted soil discovered during underground utility work.	N/A	N/A
4/7/1992	STS begins initial investigation.	15 soil borings / 5 samples analyzed	N/A
6/10/1992	STS submits report.	N/A	Further sampling to access migration of VOCs.
11/1/1994	STS enters site into IEPA Voluntary Pre-Notice Program.	None	None
Apr-95 May-95	STS continues with further investigation.	12 soil borings / 6 monitoring wells / 8 samples analyzed / mobile lab / no GW samples collected	
5/25/1995	STS submits report.		None provided in report.
Nov-96	STS samples GW wells.	6 GW samples analyzed	
Dec-96	STS contines w/ sampling on west lot.	3 soil borings / 6 samples analyzed	
2/14/1997	STS submits report.		Further sampling to access migration of VOCs in soil & GW.
3/4/1997	STS submits report for west lot only.	Sampling summarized to date.	Tier 2 objective for TCE calculated. No other recommendations provided.
4/1/1997	EASE completes Phase I ESA for west lot.	None	EASE concluded minimal evidence of TCE contamination on west lot.
8/1/1997	Degreaser pit emptied, cleaned, and replaced by new equipment.	None	None
Jun-97 Jul-97	STS conducts soil gas survey and add'l 300 / 400 series investigation	31 soil gas cartridges, 10 interior soil borings / 15 samples analyzed, 5 soil borings / 13 samples analyzed, conversion of 3 borings to wells	Various; please refer to text of report in Section 2.2.
8/5/1998	CEI resubmits STS reports to IEPA-SRP.	None	Propose additional investigations.
8/18/1998	CEI conducts trenching activities.	12 soil samples / 12 samples analyzed	N/A
8/26/1998	CEI submits DRM-1 / DRM-2 forms.	None	N/A
8/26/99 - 8/31/99	CEI conducts shallow soil borings / monitoring wells.	13 soil borings (500-512) / 15 samples analyzed / 9 converted wells / 9 total GW samples analyzed	N/A
10/06/98	Additional submittal of STS rpts to IEPA.	None	N/A
1/22/1999	CEI submits plan for additional Task 2 Sampling Investigation.	N/A	N/A
1/27/1999	IEPA approves Task 2 plan.	N/A	N/A
2/1/1999	CEI begins Task 2 Investigation.	23 soil borings (600-622) & 9 wells (500D, 504D, 508D, 513-517D) analyzed a total of 130 soil / GW samples	N/A
3/15/1999	CEI submits DRAFT Investigation Results to IEPA-SRP.	See above description.	N/A
8/19/1999	Obtain permit to install piezometers	NA	NA

TABLE 1
Summary of Investigations / Sampling

Lockformer / Lisle, Illinois

DATE	DESCRIPTION	SAMPLING	RECOMMENDATIONS
8/24/1999	CEI mark piez locations for JULIE utilities.	NA	NA
8/27/1999	CEI installed 3 piezometers south of creek.	Collect relative GW elevation.	Screened in similar GW unit as contam identified at LF.
8/30/1999	Task 3 CEI advances additional soil borings at west property line / west lot.	3 soil borings / 8 samples analyzed	N/A
10/15/1999	CEI submits Additional Action Plan to IEPA - SRP to receive NFR letter.	Proposes 5 soil borings & 5 wells / 33 soil samples / 22 GW samples	To delineate soil / GW contamination
10/19/1999	CEI submits offsite piez results and residential home GW sampling results to Marc Cumming / IEPA.	NA	NA
10/20/1999	IEPA approves Action Plan - w/ comments. Onsite well, recommends LF not to withdraw from program.	N/A	N/A
12/7/1999	Task 4 - Install two wells on south property (MW-518S, MW-519D) and 3 shallow soil borings (SB-700-702)	2 GW samples & 9 soil samples collected	GW contamination identified @ 0.053 mg/L in 519D center of prop. No soil contamination at any depths.
5/30/2000	Abandon MW-518Dand 519D.	NA	NA
11/10/2000	Task 5 - Onsite soil and GW Investigations	Soil Borings SB-800 through SB-808, MW-520 through MW-522 installed	Additional investigation required to further delineate soil and gw contamination.
11/27/2000	Offsite bedrock piezometers installed.	BW-1 through BW-3	GW flow to south
12/20/2000	Bedrock piezometers sampled for VOCs.	3 GW samples collected / analyzed for VOCs	Results pending

TABLE 2
Summary of Well / Ground Water Elevations

Lockformer / Lisle, Illinois

Monitoring Well ID	Top of Casing Elevation (msl)	Depth to GW (ft) Aug-98	Depth to GW (ft) Feb-99	Depth to GW (ft) Mar-99	Depth to GW (ft) Dec-99	Depth to GW (ft) Nov-00	Depth to GW (ft) 12/19/00	Depth to GW (ft) 1/11/01	GW Elev. Aug-98 (msl)	GW Elev. Feb-99 (msl)	GW Elev. Mar-99 (msl)	GW Elev. Dec-99 (msl)	GW Elev. Nov-00 (msl)	GW Elev. 12/19/00 (msl)	GW Elev. 1/11/01 (msl)
BW-1	742.67	N/A	N/A	N/A	N/A	N/A	90.46	85.91	N/A	N/A	N/A	N/A	N/A	652.21	656.76
BW-2	689.16	N/A	N/A	N/A	N/A	N/A	36.40	36.65	N/A	N/A	N/A	N/A	N/A	652.76	652.51
BW-3	698.58	N/A	N/A	N/A	N/A	N/A	45.68	45.92	N/A	N/A	N/A	N/A	N/A	652.90	652.66
P-1	742.87	N/A	N/A	N/A	N/A	N/A	33.29	33.10	N/A	N/A	N/A	N/A	N/A	709.58	709.77
P-2	689.25	N/A	N/A	N/A	N/A	N/A	20.88	21.09	N/A	N/A	N/A	N/A	N/A	668.37	668.16
P-3	698.68	N/A	N/A	N/A	N/A	N/A	45.93	46.15	N/A	N/A	N/A	N/A	N/A	652.75	652.53
MW-101	710.84	11.44	8.40	9.21	Dry	12.20	12.91	11.35	699.40	702.44	701.63	N/A	698.64	697.93	699.49
MW-104	710.12	Dry	Dry	Dry	Dry	Dry	Dry	Dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-105	710.90	Dry	Dry	Dry	Dry	Dry	Dry	Dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-120	707.84	32.8	32.65	32.98	33.10	39.34	39.54	39.66	675.04	675.19	674.86	674.74	668.50	668.30	668.18
MW-123	712.62	12.35	10.15	10.14	12.81	12.35	12.72	12.32	700.27	702.47	702.48	699.81	700.27	699.90	700.30
MW-126	706.30	50.5	51.30	51.39	53.38	52.70	52.57	51.04	655.80	655.00	654.91	652.92	653.60	653.73	655.26
MW-401	707.68	50.25	50.95	50.88	51.72	51.95	52.07	52.22	657.43	656.73	656.80	655.96	655.73	655.61	655.46
MW-402	700.71	45.15	43.00	44.90	46.51	45.85	46.54	46.92	655.56	657.71	655.81	654.20	654.86	654.17	653.79
MW-403	* 709.10	52.95	53.15	53.36	55.63	Buried	Buried	Buried	656.15	655.95	655.74	653.47	N/A	N/A	N/A
MW-500S	703.29	Dry	Dry	Dry	Dry	Dry	Dry	Dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-500D	703.66	N/A	47.40	47.94	47.86	49.17	48.30	49.12	N/A	656.26	655.72	655.80	654.49	655.36	654.54
MW-501S	706.96	Dry	Dry	Dry	11.43	10.98	17.47	14.13	N/A	N/A	N/A	695.53	N/A	689.49	692.83
MW-501D	707.34	N/A	50.50	50.55	52.11	51.92	52.15	52.33	N/A	656.84	656.79	655.23	655.42	655.19	655.01
MW-502S	712.38	12.98	11.10	10.45	8.65	5.32	5.13	5.72	699.40	701.28	661.83	703.73	707.06	707.25	706.66
MW-503S	* 712.07	Dry	Dry	Dry	18.68	Buried	Buried	Buried	N/A	N/A	N/A	693.39	N/A	N/A	N/A
MW-504S	710.35	Dry	Dry	Dry	Dry	Dry	Dry	Dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-504D	711.51	N/A	55.40	54.12	57.64	56.70	56.09	52.87	N/A	656.11	657.39	653.87	654.81	655.42	658.64
MW-505S	707.00	Dry	Dry	Dry	Dry	Dry	Dry	Dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-506S	* 710.90	Dry	Dry	Dry	Dry	Dry	Not located	Not located	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-507S	711.59	Dry	Dry	Dry	Dry	Dry	Dry	Dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-508S	707.43	Dry	Dry	Dry	Dry	Dry	Dry	Dry	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-508D	707.50	N/A	49.20	50.96	53.60	52.50	52.71	53.02	N/A	658.30	656.54	653.90	655.00	654.79	654.48
MW-513D	706.90	N/A	50.75	51.14	53.41	52.23	52.89	51.38	N/A	656.15	655.76	653.49	654.67	654.01	655.52
MW-514D	701.19	N/A	43.90	45.41	47.48	46.24	47.05	47.43	N/A	657.29	655.78	653.71	654.95	654.14	653.76
MW-515D	703.07	N/A	46.50	47.13	49.55	48.26	48.54	46.07	N/A	656.57	655.94	653.52	654.81	654.53	657.00
MW-516D	700.59	N/A	44.00	44.65	46.98	45.84	46.52	41.91	N/A	656.59	655.94	653.61	654.75	654.07	658.68
MW-517D	709.66	N/A	53.30	53.89	55.99	55.15	55.69	53.13	N/A	656.36	655.77	653.67	654.51	653.97	656.53
MW-518D	* 690.65	N/A	N/A	N/A	37.19	Abandoned	Abandoned	Abandoned	N/A	N/A	N/A	653.46	N/A	N/A	N/A
MW-519D	* 693.83	N/A	N/A	N/A	40.02	Abandoned	Abandoned	Abandoned	N/A	N/A	N/A	653.81	N/A	N/A	N/A
MW-520	701.71	N/A	N/A	N/A	N/A	47.66	48.04	48.28	N/A	N/A	N/A	N/A	654.05	653.67	653.43
MW-521	709.11	N/A	N/A	N/A	N/A	52.96	55.32	53.11	N/A	N/A	N/A	N/A	656.15	653.79	656.00
MW-522	706.29	N/A	N/A	N/A	N/A	52.03	52.53	52.78	N/A	N/A	N/A	N/A	654.26	653.76	653.51

NOTES: N/A = Not applicable — All top of casing elevations based on January 5, 2001 survey, unless otherwise noted.
msl = mean sea level — Depth to groundwater measured from the top of the well casing.
* = Top of casing elevations were calculated using an average difference observed between Carlson's relative elevation measurements and the January 5, 2001 survey.

TABLE 3
Drinking Water Well Summary

Lockformer / Lisle, Illinois

Well Location	Depth to Bedrock	Total Well Depth	Location Source
592 Riedy Road	75	140	Address
5005 Columbia Avenue	84	160	Address
419 Railroad Street	70	120	Address
1007 Maple Avenue	99	200	Address
5506 Essex Road	87	145	Address
825 Hitchcock Avenue	92	160	Address
4403 Center Avenue	42	80	Address
4400 Buckley Avenue	42	90	Address
4407 Center Avenue	40	80	Address
4413 Center Avenue	38	50	Address
4416 Buckley Avenue	39	59	Address
4424 Buckley Avenue	42	85	Address
4426 Kingston Avenue	50	100	Address
4424 Kingston Avenue	44	100	Address
4420 Kingston Avenue	50	80	Address
4417 Buckley Avenue	49	125	Address
4405 Buckley Avenue	50	60	Address
4406 Kingston Avenue	55	105	Address
4400 Kingston Avenue	60	120	Address
4401 Kingston Avenue	67	85	Address
4402 Chelsea Avenue	80	126	Address
4410 Chelsea Avenue	55	60	Address
4312 Ivanhoe Avenue	100	140	Address
4314 Ivanhoe Avenue	100	140	Address
4318 Ivanhoe Avenue	97	120	Address
4520 Ivanhoe Avenue	92	140	Address
4561 Ivanhoe Avenue	93	180	Address
450 Ogden Avenue	84	140	Address
929 Middleton Avenue	45	100	Address
916 Lacey Avenue	46	80	Address
648 Front Street	61	87	Address
612 Front Street	65	145	Address
596 Front Street	57	145	Address
580 Front Street	52	180	Address
584 Front Street	58	115	Address
586 Front Street	57	115	Address
599A Front Street	80	125	Address
5003 Westview Lane	52	125	Address
5011 Westview Lane	105	175	Address
581 Riedy Road	75	100	Address
725 Front Street	61	110	Address
717 Front Street	80	100	Address
649 Front Street	76	145	Address
633 Front Street	71	83	Address
599 Riedy Road	96	160	Address
600 Hitchcock Avenue	120	180	Address
640 Gamble Drive	140	160	Address
716 Gamble Drive	136	165	Address
741 Hitchcock Avenue	120	165	Address
733 Hitchcock Avenue	126	165	Address
717 Hitchcock Avenue	123	165	Address
5009 Columbia Avenue	85	118	Address

TABLE 3
Drinking Water Well Summary

Lockformer / Lisle, Illinois

Well Location	Depth to Bedrock	Total Well Depth	Location Source
5007 Columbia Avenue	84	160	Address
900 Riedy Road	90	140	Address
5006 Kingston Avenue	84	140	Address
812 Hitchcock Avenue	103	160	Address
800 Gamble Drive	115	160	Address
916 Gamble Drive	113	123	Address
829 Gamble Drive	108	165	Address
807 Gamble Drive	115	160	Address
701 Gamble Drive	138	170	Address
4505 Chelsea Avenue	75	125	Address
612 Hitchcock Street	105	165	Township/Range
900 Gamble Road	113	125	Township/Range
Address Unknown	65	95	Township/Range
Address Unknown	60	105	Township/Range
Address Unknown	113	200	Township/Range
Address Unknown	114	139	Township/Range
Address Unknown	98	115	Township/Range
Address Unknown	80	99	Township/Range
Address Unknown	102	120	Township/Range
Address Unknown	65	225	Township/Range
Address Unknown	61	110	Township/Range
Address Unknown	67	85	Township/Range
Address Unknown	115	145	Township/Range
4405 Kingston Avenue	57	105	Address
828 Riedy Road	90	140	Address
711 Ogden Avenue	Unknown	Unknown	Visually identified by CEI
4703 Elm Street	Unknown	Unknown	Visually identified by CEI
515 Chicago Avenue	Unknown	Unknown	Visually identified by CEI
511 Chicago Avenue	Unknown	Unknown	Visually identified by CEI
4708 Elm Street	Unknown	Unknown	Visually identified by CEI
4712 Elm Street	Unknown	Unknown	Visually identified by CEI
4823 Kingston Avenue	Unknown	Unknown	Visually identified by CEI
700 Front Street	Unknown	Unknown	Visually identified by CEI
620 Front Street	Unknown	Unknown	Visually identified by CEI
600 Front Street	Unknown	Unknown	Visually identified by CEI
600 Front Street	Unknown	Unknown	Visually identified by CEI
598 Front Street	Unknown	Unknown	Visually identified by CEI
592 Front Street	Unknown	Unknown	Visually identified by CEI
588 Front Street	Unknown	Unknown	Visually identified by CEI
5001 Westview Lane	Unknown	Unknown	Visually identified by CEI
5005 Westview Lane	Unknown	Unknown	Visually identified by CEI
5009 Westview Lane	Unknown	Unknown	Visually identified by CEI
580 Riedy Road	Unknown	Unknown	Visually identified by CEI
588 Riedy Road	Unknown	Unknown	Visually identified by CEI
594 Riedy Road	Unknown	Unknown	Visually identified by CEI
603 Front Street	Unknown	Unknown	Visually identified by CEI
610 Riedy Road	Unknown	Unknown	Visually identified by CEI
630 Riedy Road	Unknown	Unknown	Visually identified by CEI
641 Front Street	Unknown	Unknown	Visually identified by CEI

TABLE 3
Drinking Water Well Summary

Lockformer / Lisle, Illinois

Well Location	Depth to Bedrock	Total Well Depth	Location Source
716 Riedy Road	Unknown	Unknown	Visually identified by CEI
740 Riedy Road	Unknown	Unknown	Visually identified by CEI
807 Division Street	Unknown	Unknown	Visually identified by CEI
732 Gamble Drive	Unknown	Unknown	Visually identified by CEI
633 Riedy Road	Unknown	Unknown	Visually identified by CEI
619 Riedy Road	Unknown	Unknown	Visually identified by CEI
611 Riedy Road	Unknown	Unknown	Visually identified by CEI
601 Riedy Road	Unknown	Unknown	Visually identified by CEI
593 Riedy Road	Unknown	Unknown	Visually identified by CEI
591 Riedy Road	Unknown	Unknown	Visually identified by CEI
587 Riedy Road	Unknown	Unknown	Visually identified by CEI

TABLE 4
Photoionization Detector Results (Units)
Trench Samples

Lockformer / Lisle, Illinois

Sample ID	Depth (bgs)	PID (Units)
TS-1	5	16.1
TS-2	8.5	12.4
TS-3	7	22.6
TS-4	6.5	21
TS-5	6.5	111.8
TS-6	4.5	66.4
TS-7	6.5	33.5
TS-8	6	30.7
TS-9	4	2.6
TS-10	3.54	3.5
TS-11	4.75	26.6
TS-12	4.75	6.7

TABLE 5
Photoionization Detector Results (Units)
Task 1 / Task 2 Monitoring Well Locations

Lockformer / Lisle, Illinois

Depth (bgs)	Monitoring Well Locations								
	MW-500S/D	MW-501S/D	MW-502S	MW-503S	MW-504S/D	MW-505S	MW-506S	MW-507S	MW-508S/D
1-3	0 / 0	-- / 0	0 / 0	-- / 8.8	1.6 / 10.5	-- / 3.0	0 / 2.0	0.1 / 0.2	0 / 0
3-5	0 / 0	0 / 0	0 / 0	2.2 / 7.8	-- / 17.4	0 / 6.1	0.8 / 1.9	-- / 0.4	0 / 1.2
5-7	0 / 0	0 / 0	0 / 0	2.9 / 9.5	1.8 / 17.5	0 / 7.8	0.8 / 2.4	0.2 / 0.5	-- / --
7-9	0 / 0	0 / 0	0 / 0	2.8 / 13.5	0.8 / 9.7	-- / 7.8	2.2 / 3.6	0.2 / 0.4	0 / 0
9-11	0 / 0	0 / 0	0 / 0	-- / 8.4	-- / 2.6	0 / 10.1	1.7 / 2.5	1.0 / 0.6	0 / 0
11-13	0 / 0	0 / 0	0 / 0	2.4 / 5.8	0.1 / 3.2	0 / 1.3	1.9 / 2.4	0.3 / 0.3	0 / 0
13-15	0 / 0	0 / 0	0 / 0	-- / 6.7	0 / 2.7	0 / 7.1	2.0 / 2.3	0.2 / 0.2	0 / 0.4
15-17	0 / 0	-- / 0	0 / 0	1.7 / 4.4	-- / 2.2	0 / 8.6	2.0 / 2.3	0.2 / 0	0 / 0
17-19	0 / 0	-- / 0	0 / 0	1.2 / 4.7	0 / 0.4	0 / 4.4	2.1 / 2.3	0.1 / 0	0 / 0
19-21	0 / 0	0 / 0	0 / 0	-- / 4.6	0 / 0.2	0 / 7.1	2.0 / 2.2	0 / 0	0 / 0
21-23	0 / 0	0 / 0	0 / 0	0.7 / 5.1	0 / 1.6	-- / 1.7	2.0 / 2.2	0 / 0	0 / 0
23-25	0 / 0	0 / 0	0 / 0	0.9 / 5.9	0 / 0.8	-- / --	2.1 / 2.1	0 / 0	0 / 0
25-27	10.5	0	EOB	EOB	8.2	EOB	EOB	EOB	2.8
35-37	26.7	10			4.4				0
40-42	NS	NS			NS				NS
42-44	---	4.4			NS				NS
44-46	NS	NS			NS				0
45-47	NS	NS			NS				NS
47-49	NS	NS			NS				NS
48-50	---	3			5.3				NS
50-52	8.4	EOB			NS				NS
52-54	NS				NS				2.7
54-56	NS				NS				NS
55-57	EOB				6.2				0
58-60					5.1				NS
60-62					EOB				5.6
									EOB

NOTES:
0 / 0 - Field Reading / Bag Reading
EOB - End of Boring
Shaded results indicate sample depth interval which was submitted for chemical analysis.
--- Photoionization reading not collected at this depth interval.
NS - No soil sample collected at this depth.

TABLE 5
Photoionization Detector Results (Units)
Task 1 / Task 2 Monitoring Well Locations

Lockformer / Lisle, Illinois

Depth (bgs)	Monitoring Well Locations								
	SB-509	SB-510	SB-511	SB-512	MW-513D	MW-514D	MW-515D	MW-516D	MW-517D
1-3	0 / 0	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
3-5	0 / 0	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
5-7	-- / 0	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
7-9	0 / 0	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
9-11	0 / 0.2	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
11-13	0 / 48.3	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
13-15	0 / 77.4	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
15-17	0 / 30.1	0 / 0	0 / 0	0 / 0	2.6	NS	8.5	NS	NS
17-19	0 / 0	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
19-21	0 / 2.8	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
21-23	0 / 2.5	0 / 0	0 / 0	0 / ---	NS	NS	NS	NS	NS
23-25	0 / 0	0 / 0	0 / 0	0 / 0	NS	NS	NS	NS	NS
25-27	EOB	EOB	EOB	EOB	4.4	3.1	4.6	4.2	1.2
35-37					NS	0	24.9	---	3.8
40-42					5.1	NS	NS	NS	NS
42-44					NS	NS	NS	NS	NS
44-46					NS	NS	NS	NS	NS
45-47					NS	4.8	NS	0	S
47-49					NS	NS	NS	4.3	NS
48-50					NS	4.2	0.7	EOB	NS
50-52					4.5	EOB	EOB		4.8
52-54					NS				NS
54-56					0				NS
55-57					EOB				5.3
58-60									EOB
60-62									

NOTES:
0 / 0 - Field Reading / Bag Reading
EOB - End of Boring.
Shaded results indicate sample depth interval which was submitted for chemical analysis.
--- Photoionization reading not collected at this depth interval.

TABLE 6
Photoionization Detector Results (Units)
Task 2 Soil Boring Locations

Lockformer / Lisle, Illinois

Depth (bgs)	Soil Boring Locations											
	SB-600	SB-601	SB-602	SB-603	SB-604	SB-605	SB-606	SB-607	SB-608	SB-609	SB-610	SB-611
0-2	7.2	---	3.1	11.3	2000+	7.2	4.6	0	31.9	0	122.4	51
2-4	2.4	7	18.5	34	2000+	7.2	3.6	156	8.8	0	11.3	0
4-6	2.6	7.1	4.1	---	2000+	0	0	---	135.9	11.3	57.7	0
6-8	4.1	9	2.6	100.4	2000+	0	0	0	57.7	27.8	0	0
8-10	8.8	5.8	3.1	58.2	134.7	12.9	0	0	16	28.8	7.7	0
10-12	2.3	7.2	8.2	251.9	2000+	58.2	5.7	0	92.2	---	28.8	0
12-14	1.8	7.6	6.2	145	2000+	0	0	4.1	136.5	6.7	0	0
14-16	2.3	6.1	2.6	109.7	2000+	0	0	0	0	0	0	0
16-18	3.6	19.1	99.9	310	2000+	0	0	43.8	0	0	6.7	24.7
18-20	5.9	38.6	43.8	18	2000+	0	0	0	55.6	0	0	0
20-22	6.8	18	NS	0	EOB	1.5	0	0	NS	NS	0	NS
22-24	7	10.3	NS	8.8		0.5	0	0	NS	NS	0	NS
23-25	NS	NS	0.3	NS		NS	NS	NS	NS	NS	NS	NS
24-26	8.8	9.3	NS	5.7		0	26.8	0	NS	NS	0	NS
26-28	7.7	3.6	NS	44.6		0	0	0	NS	NS	5.2	2.5
28-30	6.9	NS	NS	19.1		NS	5.7	0	NS	NS	EOB	NS
30-32	NS	NS	NS	14.9		NS	EOB	NS	NS	NS		NS
32-34	NS	NS	NS	EOB		NS		NS	NS	NS		NS
33-35	NS	NS	NS			NS		NS	NS	NS		NS
34-36	NS	NS	NS			NS		NS	NS	NS		NS
35-37	11.3	9.5	10.6			0		57.3	10.2	NS		6.8
36-38	NS	NS	NS			NS		NS	NS	NS		NS
37-39	NS	NS	NS			NS		NS	NS	63.1		NS
38-40	NS	NS	NS			NS		NS	NS	NS		NS
42-44	NS	NS	NS			NS		NS	15.3	NS		19
43-45	EOB	EOB	---			130		EOB	EOB	0		EOB
44-46			NS			NS				NS		
45-47			39.3			NS				EOB		
47-49			NS			NS						
52-54			EOB			15.3						
54-56						EOB						
55-57												
58-60												
60-62												

NOTES:
0 / 0 - Field Reading / Bag Reading
EOB - End of Boring
Shaded results indicate sample depth interval which was submitted for chemical analysis.
--- Photoionization reading not collected at this depth interval.
NS - No soil sample collected at this depth.

TABLE 6
Photoionization Detector Results (Units)
Task 2 Soil Boring Locations

Lockformer / Lisle, Illinois

Depth (bgs)	Soil Boring Locations										
	SB-612	SB-613	SB-614	SB-615	SB-616	SB-617	SB-618	SB-619	SB-620	SB-621	SB-622
0-2	4.1	5.2	0	0.6	2.8	NS	NS	NS	NS	NS	NS
2-4	0	0	0	1.1	0.5	NS	NS	NS	NS	NS	NS
4-6	0	0	0	2	2.1	NS	NS	NS	NS	NS	NS
6-8	0	0	0	0.5	4.4	NS	NS	NS	NS	NS	NS
8-10	63.3	0	0	0.6	9.3	NS	NS	NS	NS	NS	NS
10-12	2.1	0	0	2.6	24.3	NS	NS	NS	NS	2.4	3.1
12-14	0	0	0 (12-15')	3.8 (12-15')	5.7 (12-15')	NS	4.5	NS	NS	NS	NS
14-16	0	0	0	5.2 (15-18')	15.6 (15-17')	NS	NS	NS	NS	NS	NS
16-18	0	0	0	6.6 (18-21')	3 (17-20')	NS	NS	NS	NS	NS	5.5 (17-19')
18-20	0	0	0	NS	EOB	NS	NS	NS	NS	NS	EOB
20-22	0	0	NS	NS		NS	NS	NS	NS	NS	
22-24	0	0	4.4	NS		NS	NS	NS	NS	NS	
23-25	NS	NS	NS	NS		NS	NS	NS	NS	NS	
24-26	0	0	NS	---		NS	NS	NS	NS	NS	
26-28	0	0	NS	EOB		NS	NS	NS	NS	NS	
28-30	0	0	NS			NS	NS	NS	1.9	4.1	
30-32	NS	NS	NS			NS	NS	0	NS	NS	
32-34	NS	NS	NS			NS	NS	NS	NS	NS	
33-35	NS	NS	2.2			NS	NS	NS	NS	NS	
34-36	NS	NS	NS			NS	6.5	NS	NS	NS	
35-37	NS	NS	1.9			5.1	EOB	NS	NS	33.1	
36-38	NS	NS	NS			NS		0.9	0	EOB	
37-39	---	3.5	5.2			NS		EOB	EOB		
38-40	NS	NS	NS			7.8					
42-44	NS	EOB	NS			EOB					
43-45	NS		NS								
44-46	NS		---								
45-47	NS		EOB								
47-49	4.9										
52-54	EOB										
54-56											
55-57											
58-60											
60-62											

NOTES:
0 / 0 - Field Reading / Bag Reading
EOB - End of Boring
Shaded results indicate sample depth interval which was submitted for chemical analysis.
--- Photoionization reading not collected at this depth interval.
NS - No soil sample collected at this depth.

TABLE 7
Photoionization Detector Results (Units)
Task 3 / Task 4

Lockformer / Lisle, Illinois

Depth	TASK 3 / TASK 4							
(bgs)	SB-623	SB-624	SB-625	SB-700	SB-701	SB-702	MW-518D	MW-519D
0-2	---	33.1	---	---	---	---	NS	NS
2-4	24	40.3	279	EOB	---	---	NS	NS
4-6	367	42.4	59.9		EOB	---	NS	NS
6-8	194.5	80.6	105.8			EOB	0	NS
8-10	710	4.4	33.6				NS	0
10-12	120.2	53.1	41.3				NS	NS
12-14	179.9	30.8	194.2				NS	NS
14-16	410	61	4				NS	NS
17-19	EOB	EOB	EOB				NS	NS
19-21							NS	NS
21-23							NS	NS
23-32	Note Break						NS	NS
32-34							0	NS
33-35							NS	0
34-36							NS	NS
36-38							NS	NS
38-40							NS	NS
40-42							NS	NS
42-44							NS	NS
44-46							NS	NS
46-48							NS	NS
48-50							NS	NS
50-52							NS	0
52-54							0	NS
							EOB	EOB

NOTES:
0 / 0 - Field Reading / Bag Reading
EOB - End of Boring.
Shaded results indicate sample depth interval which was submitted for chemical analysis.
(---) Photoionization reading not collected at this depth interval.
(NS) No sample collected at this depth interval.

TABLE 8
Photoionization Detector Results (Units)
Task 5

Lockformer / Lisle, Illinois

Depth (bgs)	Soil Boring and Monitoring Well Locations											
	SB-800	SB-801	SB-802	SB-803	SB-804	SB-805	SB-806	SB-807	SB-808	MW-520	MW-521	MW-522
0-2	0	1	0.9	0	0.1	0.2	0.5	0.3	0	0.5	0	0.8
2-4	0	0.5	1.6	0	0.4	0.2	0.1	0.2	0	0.8	0	0.1
4-6	0	0.4	1	0	0.4	0.3	0.9	0.7	0	22.7	0.2	0.4
6-8	0	0.1	1.1	0	0.1	1.1	0.5	1.2	0	3	0	0.2
8-10	0	0	0.4	0.4	0.1	0.5	0.9	0.3	1.6	2.2	0	0.7
10-12	0	0.2	0.7	0.2	0	11.3	0.3	0.2	0	6.7	0.3	0.2
12-14	0	0	0.7	1.5	0.5	6.9	0.7	0.4	0	0.5	0	0.3
14-16	0	0.3	0.3	2.6	0.7	16.6	1.1	0.1	0	---	0	0
16-18	0	0.4	1.2	0.2	0.6	22.8	1.6	NS	0	0.4	NS	NS
18-20	EOB	0	0	0	0.2	17.1	3.4	0.5	0	0.6	---	0
20-22		NS	NS	NS	NS	0.3	5.7	NS	NS	0.9	0.1	NS
22-24		NS	NS	NS	NS	0.7	9.1	NS	NS	0.6	NS	NS
23-25		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
24-26		NS	NS	NS	NS	NS	NS	NS	NS	0	NS	NS
26-28		NS	NS	NS	NS	NS	NS	NS	---	0	NS	NS
28-30		62	0	NS	0	0.5	0.6	0	0.5	0	0.1	0
30-32		NS	NS	NS	0	NS	NS	NS	NS	0	NS	NS
32-34		NS	NS	NS	NS	NS	NS	NS	NS	0.1	NS	NS
33-35		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
34-36		NS	NS	NS	NS	NS	NS	NS	NS	0	NS	NS
35-37		14.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
36-38		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
37-39		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
38-40		NS	0	0	0.3	10.8	4.5	0.1	0	NS	0	0.1
40-42		NS	NS	NS	NS	NS	NS	NS	NS	0	NS	NS
42-44		NS	NS	NS	EOB	NS	NS	NS	EOB	NS	NS	NS
43-45		NS	NS	NS		NS	NS	NS		NS	NS	NS
44-46		NS	NS	NS		NS	NS	NS		NS	NS	NS
45-47		34.7	NS	NS		NS	NS	NS		0	NS	NS
46-48		NS	NS	NS		4.9	0	---		NS	NS	NS
47-49		EOB	NS	NS		NS	NS	NS		NS	NS	NS
48-50			0	0		0	0	7.6		0.2	0	0.3
50-52			EOB	EOB		EOB	EOB	EOB		0.2	NS	NS
52-54										NS	NS	NS
54-56										0.4	NS	NS
55-57										NS	0	0.7
58-60										NS	NS	0.2
59-61										0	EOB	EOB
60-62										NS		
63-65										---		
										EOB		

NOTES:
0 / 0 - Field Reading / Bag Reading
EOB - End of Boring
Shaded results indicate sample depth interval which was submitted for chemical analysis.
--- Photoionization reading not collected at this depth interval.
NS - No soil sample collected at this depth.

TABLE 9
Summary of Analytical Data (Soil)
Trench Locations

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation/ Ingestion Value Construction (2) mg/kg	Inhalation/ Ingestion Value Commercial (3) mg/kg	Trench Sampling Locations / Depth of Sample Collected											
				TS-1 5'	TS-2 8.5'	TS-3 7'	TS-4 6.5'	TS-5 6.5'	TS-6 4.5'	TS-7 6.5'	TS-8 6.0'	TS-9 4.0'	TS-10 3.5'	TS-11 4.75'	TS-12 4.75'
VOCs															
Acetone	16	100,000	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.045	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	0.014	0.0089	ND	0.970	0.0032	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	0.130	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	0.0071	0.010	0.0086	0.011	0.0061	0.0039	0.0058	0.008	0.0088	0.0076	0.0081	0.0038
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	0.0048	ND	ND	ND	ND	ND	ND
Trichloroethene	0.06	12	8.9	ND	0.0027	0.0083	ND	0.220	0.015	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	0.0096	ND	ND	ND	ND	ND	ND	ND

NOTES:

(1) - Tiered Approach to Corrective Action Objectives (TACO):(35 IAC, Part 742)-Appendix B: Table B: Tier 1 Class 1 Migration to Ground Water Remediation Objectives (Industrial / Commercial Properties).

(2) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soils for Construction Workers (most stringent inhalation or ingestion objective is listed) (Industrial / Commercial Properties).

(3) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soils Industrial / Commercial (most stringent inhalation or ingestion objective is listed).

ND - Not detected

Shading indicates concentration is above most stringent remediation objectives listed.

Only those compounds detected above the laboratory detection limits are listed on this table.

mg/kg: milligram per kilogram; parts per million (ppm)

TABLE 10
Summary of Analytical Data (Soil)
Task 1

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations							
				SB-500H 15-17'	SB-501F 11-13'	SB-502D 7-9'	SB-503D 7-9'	SB-504C 5-7'	SB-505H 15-17'	SB-506F 11-13'	SB-507K 23-25'
VOCs											
Acetone	16	100,000	100,000	ND	0.048	0.032	0.180	ND	ND	ND	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	0.030	ND	ND	ND	ND	ND	0.0029	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	0.019	ND	0.0094	0.015	0.008	0.014	0.016	0.0077
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	0.0054	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	0.0052	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	**0.082**	ND	ND	ND	ND	ND	ND	0.0088
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
(1) - Tiered Approach to Corrective Action Objectives (TACO):(35IAC, Part 742)-Appendix B: Table
(2) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soil for Construction Workers (most stringent inhalation or ingestion objectives is listed) (Industrial / Commercial Properties).
(3) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soils Industrial / Commercial (most stringent inhalation or ingestion objective is listed).
ND - Not detected
NE - IEPA Remediation Objectives have not been established.
NA - Not analyzed
Bold and underlined twice indicates concentration is above most stringent remediation objectives listed.
Only those compounds detected above the laboratory detection limits are listed on this table.
mg/kg: milligrams per kilograms; parts per million (ppm)

TABLE 10
Summary of Analytical Data (Soil)
Task 1

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations						
				SB-508I 17-19'	SB-509E 9-11'	SB-509ED 9-11'	SB-509G 13-15'	SB-510E 9-11'	SB-511F 11-13'	SB-512E 9-11'
VOCs										
Acetone	16	100,000	100,000	ND	0.081	0.082	ND	0.160	0.270	0.084
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	0.031	0.015	0.140	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	0.003	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	0.0079	0.0074	0.011	0.0074	0.0092	0.0096	0.010
Tetrachloroethene	0.06	28	20	0.014	ND	ND	0.005	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	0.0065	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	0.0032	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	0.0033	0.011	0.011	1.7	0.013	ND	0.0029
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND

TABLE 11
Summary of Analytical Data (Soil)
Task 2

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-600A 0-2'	SB-600E 8-10'	SB-600H 14-16'	SB-600J 18-20'	SB-600M 24-26'	SB-600Q 35-37'	SB-601B 2-4'	SB-601D 6-8'	SB-601G 12-14'	SB-601J 18-20'	SB-601N 26-28'	SB-601O 35-37'
VOCs															
Acetone	16	100,000	100,000	0.068	ND	ND	0.012	0.0095	ND	0.033	0.0066	ND	0.0063	0.012	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	**0.59**	ND	ND	ND	0.037	0.015	0.056	0.1	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	0.026	ND	ND	ND	ND	ND	ND	0.0099	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	0.0064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	0.0087	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	**9.2**	ND	ND	0.0088	**0.24**	0.044	0.017	0.019	ND	ND	**0.33**
Vinyl Chloride	0.01	0.08	0.06	ND	0.0072	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	0.013	ND	ND	ND	ND	ND

NOTES:
(1) - Tiered Approach to Corrective Action Objectives (TACO):(35IAC, Part 742)-Appendix B: Table
(2) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soil for Construction Workers (most stringent inhalation or ingestion objectives is listed) (Industrial / Commercial Properties).
(3) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soils Industrial / Commercial (most stringent inhalation or ingestion objective is listed).
ND - Not detected
NE - IEPA Remediation Objectives have not been established.
NA - Not analyzed
Bold and underlined twice indicates concentration is above most stringent remediation objectives listed.
Only those compounds detected above the laboratory detection limits are listed on this table.
mg/kg: milligrams per kilograms; parts per million (ppm)

TABLE 11
Summary of Analytical Data (Soil)
Task 2

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-602B 2-4'	SB-602F 10-12'	SB-602I 16-18'	SB-602K 23-25'	SB-602L 35-37'	SB-602N 45-47'	SB-603B 2-4'	SB-603D 6-8'	SB-603F 10-12'	SB-603I 16-18'	SB-603N 26-28'	SB-604D 6-8'
VOCs															
Acetone	16	100,000	100,000	0.074	0.0066	0.016	ND	ND	ND	ND	0.030	ND	0.013	0.012	0.062
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008	ND	0.150
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.055
cis-1,2-Dichloroethene	0.4	1,200	1,200	0.099	0.13	ND	ND	ND	ND	**0.77**	**0.6**	**2.9**	**4.5**	0.036	**27**
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	0.0072	ND	ND	ND	ND	0.007	0.14	0.031	0.076	ND	0.47
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	0.036	ND	**0.22**	ND	ND	0.017	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	**0.097**	ND	ND	**2.4**	**13**	**1.9**	0.013	**1.4**	**0.96**	0.021	**0.9**
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	**0.082**	ND	ND	ND	**1.1**
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 11
Summary of Analytical Data (Soil)
Task 2

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-604G 12-14'	SB-604J 18-20'	SB-605B 2-4'	SB-605E 8-10'	SB-605F 10-12'	SB-605J 18-20'	SB-605N 26-28'	SB-605O 35-37'	SB-605P 43-45'	SB-605Q 52-54'	SB-606A 0-2'	SB-606D 6-8'
VOCs															
Acetone	16	100,000	100,000	0.049	ND	0.021	ND	ND	0.0059	0.0075	ND	ND	ND	0.045	0.043
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009	0.0064
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	0.220	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	**0.100**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	**17**	ND	0.025	0.008	0.012	ND	ND	ND	ND	ND	0.28	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.088	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	0.57	**8.2**	ND	0.011	0.01	ND	ND	**0.28**	**0.15**	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	0.014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	**4.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	**25**	**720**	**0.15**	0.06	**0.12**	ND	0.0068	**9.6**	**7.8**	ND	0.013	0.032
Vinyl Chloride	0.01	0.08	0.06	**0.26**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 11
Summary of Analytical Data (Soil)
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Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-606F 10-12'	SB-606I 16-18'	SB-606O 28-30'	SB-607E 8-10'	SB-607G 12-14'	SB-607I 16-18'	SB-607M 24-26'	SB-607P 35-37'	SB-608C 4-6'	SB-608G 12-14'	SB-608J 18-20'	SB-608K 35-37'
VOCs															
Acetone	16	100,000	100,000	0.012	0.028	0.0088	0.035	0.028	0.034	ND	ND	0.045	ND	0.036	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	0.007	0.0067	0.0061	ND	ND	0.0086	ND	0.0095	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	0.0082	0.11	ND	**0.82**	**0.77**	0.31	ND	ND	**0.61**	**0.77**	**0.74**	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	0.03	ND	0.12	0.094	0.038	ND	ND	0.021	0.048	0.056	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	0.0068	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	0.0077	ND	0.0076	0.0082	ND	ND	**0.12**	ND	ND	0.0078	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	0.0071	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	0.0077	**0.063**	ND	0.027	0.033	0.016	ND	**3.1**	**1.3**	**22**	**21**	**1.2**
Vinyl Chloride	0.01	0.08	0.06	ND	0.01	ND	**0.031**	**0.065**	0.0064	ND	ND	ND	**0.012**	**0.052**	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 11
Summary of Analytical Data (Soil)
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Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-608L 42-44'	SB-609E 8-10'	SB-609G 12-14'	SB-609I 16-18'	SB-609L 37-39'	SB-609M 43-45'	SB-610F 10-12'	SB-610I 16-18'	SB-610N 26-28'	SB-611G 12-14'	SB-611I 16-17'	SB-611K 26-28'
VOCs															
Acetone	16	100,000	100,000	0.0078	ND	ND	0.0072	ND	ND	ND	0.026	ND	ND	ND	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	0.019	0.36	**2**	ND	0.39	ND	**0.91**	**0.41**	**0.61**	**0.54**	0.31	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	0.027	0.12	ND	ND	ND	0.037	0.026	0.011	0.0081	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	0.009	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	**0.15**	**3.4**	**0.073**	ND	**3.0**	ND	**5.3**	**0.22**	**2**	**2.3**	**1.3**	0.022
Vinyl Chloride	0.01	0.08	0.06	ND	0.0071	**0.066**	ND	ND	ND	0.01	**0.077**	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 11
Summary of Analytical Data (Soil)
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Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-611L 35-37'	SB-611M 42-44'	SB-612E 8-10'	SB-612G 12-15'	SB-612H 15-18'	SB-612N 28-30'	SB-612O 37-39'	SB-612P 47-49'	SB-613E 8-10'	DUP-3 8-10'	SB-613G 12-15'	SB-613I 18-20'
VOCs															
Acetone	16	100,000	100,000	ND	ND	0.018	ND	ND	ND	ND	ND	0.038	0.021	ND	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	0.0088	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	0.041	ND	ND	ND	ND	0.11	0.094	0.067	ND	ND	0.024	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	0.0066	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	**0.22**	ND	ND	ND	ND	**0.67**	**0.51**	ND	ND	ND	**0.087**	ND
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 11
Summary of Analytical Data (Soil)
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Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-613L 25-28'	SB-613N 37-39'	SB-614G 12-15'	SB-614I 18-20'	SB-614J 22-24'	SB-614M 37-39'	SB-614N 44-46'	SB-615G 12-15'	SB-615I 18-21'	SB-616E 8-10'	SB-616F 10-12'	SB-616H 15-17'
VOCs															
Acetone	16	100,000	100,000	0.0062	ND	ND	0.019	ND	ND	ND	0.0089	ND	0.035	ND	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	**2.4**	0.26
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.15	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	**1.3**	ND	ND	ND	ND	0.0098	0.027	0.011	ND	**0.17**	**18**
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 11
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Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-616I 17-20'	SB-617B 38-40'	SB-618A 12-14'	SB-618B 34-36'	DUP-4 (SB-618B) 34-36'	SB-619A 30-32'	SB-619B 36-38'	SB-620A 28-30'	SB-620B 36-38'	SB-621A 10-12'	SB-621B 28-30'	SB-621C 35-37'
VOCs															
Acetone	16	100,000	100,000	ND	ND	ND	0.007	0.011	ND	ND	ND	ND	ND	ND	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	0.0063	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	0.36	ND	0.0077	ND	ND	ND	ND	ND	ND	0.011	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.053
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	**4.2**	**0.21**	0.021	0.007	0.015	ND	ND	ND	0.015	0.025	ND	**2.1**
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-622A 10-12'	SB-622B 17-19'	MW-500B 35-37'	MW-501B 35-37'	MW-501C 42-44'	MW-504E 58-60'	MW-508F 60-62'	MW-513A 15-17'	MW-513D 50-52'	MW-514B 35-37'	MW-514C 45-47'	MW-515A 15-17'
VOCs															
Acetone	16	100,000	100,000	0.069	ND	ND	ND	0.0077	ND	0.0057	ND	ND	ND	ND	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	0.021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	ND	0.098	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	ND	**0.18**	**0.14**	ND	ND	ND	ND	ND	0.033	ND	0.0065
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 11
Summary of Analytical Data (Soil)
Task 2

Lockformer / Lisle, Illinois

Chemical Parameter	Class I *Migration to* GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations					
				MW-515B 25-27'	MW-515C 35-37'	MW-516A 25-27'	MW-516B 35-37'	MW-517B 35-37'	MW-517E 55-57'
VOCs									
Acetone	16	100,000	100,000	ND	ND	ND	ND	ND	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	0.16	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	0.016	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	0.7	ND	ND	ND	ND
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND

TABLE 12
Summary of Analytical Data (Soil)
Task 3

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations							
				SB-623C 4-6'	SB-623E 8-10'	SB-623G 12-14'	SB-624D 6-8'	SB-624F 10-12'	SB-625B 2-4'	SB-625D 6-8'	SB-625G 12-14'
VOCs											
Acetone	16	100,000	100,000	0.0066	ND	0.009	ND	ND	ND	0.045	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	0.010	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	0.24	0.039	ND	0.012	0.039	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	0.0068	0.0067	0.009	ND	0.0085	0.0087
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	**0.31**	0.045	ND	0.014	ND	ND	ND	ND
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
(1) - Tiered Approach to Corrective Action Objectives (TACO):(35IAC, Part 742)-Appendix B: Table
(2) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soil for Construction Workers (most stringent inhalation or ingestion objectives is listed) (Industrial / Commercial Properties).
(3) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soils Industrial / Commercial (most stringent inhalation or ingestion objective is listed).
ND - Not detected
NE - IEPA Remediation Objectives have not been established.
NA - Not analyzed
Bold and underlined twice indicates concentration is above most stringent remediation objectives listed.
Only those compounds detected above the laboratory detection limits are listed on this table.
mg/kg: milligrams per kilograms; parts per million (ppm)

TABLE 13
Summary of Analytical Data (Soil)
Task 4

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations								
				SB-700A 0-2'	SB-701B 2-4'	SB-702C 4-6'	MW-518D-A 6-8'	MW-518D-B 32-34'	MW-518D-F 52-54'	MW-519D-A 8-10'	MW-519D-B 33-35'	MW-519D-D 50-52'
VOCs												
Acetone	16	100,000	100,000	ND	0.0061	ND	0.0087	0.011	0.011	0.0059	0.0064	0.0089
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	ND	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

(1) - Tiered Approach to Corrective Action Objectives (TACO):(35IAC, Part 742)-Appendix B: Table

(2) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soil for Construction Workers (most stringent inhalation or ingestion objectives is listed) (Industrial / Commercial Properties).

(3) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soils Industrial / Commercial (most stringent inhalation or ingestion objective is listed).

ND - Not detected

NE - IEPA Remediation Objectives have not been established.

NA - Not analyzed

Bold and underlined twice indicates concentration is above most stringent remediation objectives listed.

Only those compounds detected above the laboratory detection limits are listed on this table.

mg/kg: milligrams per kilograms; parts per million (ppm)

TABLE 14
Summary of Analytical Data (Soil)
Task 5

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				MW-520C 4-6'	MW-520J 18-20'	MW0520U 48-50'	MW-520Y 63-65	MW-521F 10-12'	MW-521J 28-30'	MW-521L 48-50'	MW-521M 55-57'	MW-522G 12-14'	MW-522K 28-30'	MW-522L 38-40'	MW-522M 48-50'
VOCs															
Acetone	16	100,000	100,000	0.016	0.022	0.013	0.0068	0.076	0.0091	0.0077	0.010	0.005	0.0098	0.017	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	0.017	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	ND	**0.10**	ND	ND	ND	ND	0.0052	ND	0.020	ND	**0.810**
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
(1) - Tiered Approach to Corrective Action Objectives (TACO):(35IAC, Part 742)-Appendix B: Table
(2) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soil for Construction Workers (most stringent inhalation or ingestion objectives is listed) (Industrial / Commercial Properties).
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ND - Not detected.
NE - IEPA Remediation Objectives have not been established.
NA - Not analyzed.
Bold and underlined twice indicates concentration is above most stringent remediation objectives listed.
Only those compounds detected above the laboratory detection limits are listed on this table.
mg/kg: milligrams per kilograms; parts per million (ppm)

TABLE 14
Summary of Analytical Data (Soil)
Task 5

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				MW-522N 55-57'	SB-800C 4-6'	SB-800I 16-18'	SB-801B 2-4'	SB-801F 10-12'	SB-801I 16-18'	SB-801K 28-30'	SB-801L 35-37'	SB-801M 45-47'	SB-802H 14-16'	SB-802I 16-18'	SB-802K 28-30'
VOCs															
Acetone	16	100,000	100,000	0.013	0.080	0.023	0.074	0.0053	0.019	0.026	ND	ND	0.012	0.050	0.0091
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	0.018	ND	0.016	ND	ND	0.010	ND	ND	ND	0.010	ND
Carbon disulfide	32	9	720	ND	0.023	ND	0.028	0.010	ND	ND	ND	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	ND	ND	ND	0.015	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	0.082	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	ND	ND	ND	0.0095	ND	ND	3.9	8.2	ND	ND	0.010
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 14
Summary of Analytical Data (Soil)
Task 5

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-802L 38-40'	SB-802M 48-50'	SB-803H 14-16'	SB-803L 48-50'	SB-804F 10-12'	SB-804H 14-16'	SB-804I 16-18'	SB-804K 28-30'	SB-804M 38-40'	SB-805G 12-14'	SB-805I 16-18'	SB-805L 22-24'
VOCs															
Acetone	16	100,000	100,000	0.011	0.013	0.088	ND	0.036	0.012	0.012	0.015	ND	ND	0.090	0.037
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	0.0085	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	ND	ND	0.290	ND	ND	ND	ND	ND	ND	0.420	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	ND	0.100	ND	ND	0.088	0.068	ND	ND	**0.840**	**2.5**	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	0.0065	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	0.0068	**1.4**	ND	ND	ND	ND	ND	**0.340**	ND	**25.0**	ND
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	0.0068	0.0077	ND	ND	**0.150**	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 14
Summary of Analytical Data (Soil)
Task 5

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations											
				SB-805M 28-30'	SB-805N 38-40'	SB-805O 46-48'	SB-806C 4-6'	SB-806H 14-16'	SB-806M 28-30'	SB-806N 38-40'	SB-806P 48-50'	SB-807H 14-16'	SB-807J 28-30'	SB-807K 38-40'	SB-807M 48-50'
VOCs															
Acetone	16	100,000	100,000	ND	ND	ND	0.031	ND	0.011	ND	0.013	0.0099	0.0074	0.012	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	ND	ND	0.0092	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	32	9	720	0.140	ND	ND	ND	ND	ND	ND	0.013	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	**0.800**	**26**	ND	0.045	0.028	ND	ND	ND	ND	0.0073	**27.0**
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.500**
Tetrachloroethene	0.06	28	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	**1.00**	**6.5**	**22.0**	ND	**0.096**	**0.140**	**1.5**	ND	ND	0.033	**0.062**	**51.0**
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	0.0053	ND	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 14
Summary of Analytical Data (Soil)
Task 5

Lockformer / Lisle, Illinois

Chemical Parameter	Class I Migration to GW Value Commercial (1) mg/kg	Inhalation / Ingestion Value Construction (2) mg/kg	Inhalation / Ingestion Value Commercial (3) mg/kg	Soil Boring and Monitoring Well Locations					
				SB-808B 2-4'	SB-808E 8-10'	SB-808F 10-12'	SB-808J 18-20'	SB-808L 28-30'	SB-808M 38-40'
VOCs									
Acetone	16	100,000	100,000	0.010	0.062	0.031	0.016	0.016	ND
Benzene	0.03	2.1	2	ND	ND	ND	ND	ND	ND
Bromodichloromethane	0.6	2,000	92	ND	ND	ND	ND	ND	ND
2-Butanone	NE	NE	NE	ND	0.016	0.011	ND	ND	ND
Carbon disulfide	32	9	720	ND	0.0064	ND	ND	ND	ND
2-Chloroethyl vinyl ether	NE	NE	NE	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	23	130	1,700	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.02	0.99	0.7	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.06	1,500	1,500	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.4	1,200	1,200	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	0.7	3,100	3,100	ND	ND	ND	ND	ND	ND
Ethylbenzene	13	58	400	ND	ND	ND	ND	ND	ND
Methylene chloride	0.02	34	24	ND	ND	ND	ND	ND	ND
Tetrachloroethene	*0.06*	*28*	*20*	ND	ND	ND	ND	ND	ND
Tetrachloromethane	NE	NE	NE	NA	NA	NA	NA	NA	NA
Toluene	12	42	650	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	2	1,200	1,200	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.02	1,800	1,800	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	NE	NE	NE	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	NE	NE	NE	NA	NA	NA	NA	NA	NA
Trichloroethene	0.06	12	8.9	ND	ND	ND	ND	ND	1.4
Vinyl Chloride	0.01	0.08	0.06	ND	ND	ND	ND	ND	ND
Xylene, -m,-p (total)	200	420	420	ND	ND	ND	ND	ND	ND

TABLE 15
Summary of Analytical Data (Groundwater)
Task 1

Lockformer / Lisle, Illinois

Chemical Parameter	Class I GW Objectives (1) mg/L	Monitoring Well ID / Date Collected							
		MW-101 8/27/1998	MW-120 8/28/1998	MW-123 8/28/1998	MW-126 8/31/1998	MW-401 8/31/1998	MW-402 8/27/1998	MW-403 8/28/1998	MW502S 9/16/1998
VOCs									
Acetone	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	**0.017**	ND	ND	ND	ND	ND
Chloroform	0.00002	**0.0036**	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NE	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.7	0.540	0.052	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.005	**0.025**	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.007	**0.500**	ND	0.0034	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.07	**42**	**0.072**	**0.130**	ND	ND	**0.180**	ND	ND
trans-1,2-Dichloroethene	0.1	**0.600**	ND	0.0035	ND	ND	0.0083	ND	ND
Methyl-t-Butyl Ether	NE	ND	ND	0.016	ND	ND	ND	ND	ND
Methylene chloride	0.005	**0.018**	**0.0076**	0.0033	0.0049	0.0042	0.0029	0.0046	ND
Tetrachloroethene	0.005	**0.0065**	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	**3.3**	ND	0.033	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	**0.030**	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	**54**	**0.0055**	**0.430**	**0.0063**	ND	**0.0084**	ND	ND
Vinyl Chloride	0.002	**0.048**	ND	ND	ND	ND	ND	ND	ND

NOTES:
(1) - Tiered Approach to Corrective Action Objectives (TACO):(35 IAC, Part 742)-Appendix B: Table E: Tier 1 Ground Water Remediation Objectives (Class I).
ND - Not detected
NE - Not established
N/A - Not analyzed
Bold and underlined twice indicates concentration is above Class I remediation objectives.
Only those compounds detected above the laboratory detection limits are listed on this table.
mg/L: milligram per liter; parts per million (ppm)

TABLE 16
Summary of Analytical Data (Groundwater)
Task 2

Lockformer / Lisle, Illinois

Chemical Parameter	Class I GW Objectives (1) mg/L	Monitoring Well ID / Date Collected									
		MW-101 2/5/1999	MW-120 2/15/1999	DUP-5 2/15/1999	MW-123 2/5/1999	MW-126 2/19/1999	MW-401 2/15/1999	MW-402 2/15/1999	MW-403 2/15/1999	MW-500D 2/15/1999	MW-501D 2/15/1999
VOCs											
Acetone	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.00002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.7	0.550	0.049	0.046	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.007	**1,100**	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.07	**41**	0.07	0.069	0.013	ND	ND	**0.17**	ND	**2.9**	ND
trans-1,2-Dichloroethene	0.1	**0.730**	0.0037	0.0036	ND	ND	ND	0.0075	ND	0.067	ND
Methyl-t-Butyl Ether	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene chloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	**8.2**	0.0031	0.0037	0.0014	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	**83**	**0.007**	**0.0076**	**0.027**	ND	ND	**0.03**	ND	**1.7**	0.0014
Vinyl Chloride	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

(1) - Tiered Approach to Corrective Action Objectives (TACO):(35 IAC, Part 742)-Appendix B: Table E: Tier 1 Ground Water Remediation Objectives (Class I).

ND - Not detected

NE - Not established

N/A - Not analyzed

Bold and underlined twice indicates concentration is above Class I remediation objectives.

Only those compounds detected above the laboratory detection limits are listed on this table.

mg/L: milligram per liter; parts per million (ppm)

TABLE 16
Summary of Analytical Data (Groundwater)
Task 2

Lockformer / Lisle, Illinois

Chemical Parameter	Class I GW Objectives (1) mg/L	Monitoring Well ID / Date Collected								
		MW-502S 2/5/1999	MW-504D 2/17/1999	MW-508D 2/20/1999	DUP-6 2/20/1999	MW-513D 2/15/1999	MW-514D 2/15/1999	MW-515D 2/17/1999	MW-516D 2/15/1999	MW-517D 2/15/1999
VOCs										
Acetone	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.00002	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.07	0.001	ND	ND	ND	ND	ND	**0.32**	**0.099**	**0.15**
trans-1,2-Dichloroethene	0.1	ND	ND	ND	ND	ND	ND	0.0073	0.0029	0.0063
Methyl-t-Butyl Ether	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene chloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	ND	ND	ND	ND	ND	0.001	**0.0079**	**0.21**	0.0041
Vinyl Chloride	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

(1) - Tiered Approach to Corrective Action Objectives (TACO):(35 IAC, Part 742)-Appendix B: Table E: Tier 1 Ground Water Remediation Objectives (Class I).

ND - Not detected

NE - Not established

N/A - Not analyzed

Bold and underlined twice indicates concentration is above Class I remediation objectives.

Only those compounds detected above the laboratory detection limits are listed on this table.

mg/L: milligram per liter; parts per million (ppm)

TABLE 17
Summary of Analytical Data (Groundwater)
Task 4

Lockformer / Lisle, Illinois

Chemical Parameter	Class I GW Objectives (1) mg/L	Monitoring Well ID / Date Collected	
		MW-518D	MW-519D
		12/8/1999	12/8/1999
VOCs			
Acetone	0.7	ND	ND
Benzene	0.005	ND	ND
Chloroform	0.00002	ND	ND
Chloromethane	NE	ND	ND
1,1-Dichloroethane	0.7	ND	ND
1,2-Dichloroethane	0.005	ND	ND
1,1-Dichloroethene	0.007	ND	ND
cis-1,2-Dichloroethene	0.07	ND	0.018
trans-1,2-Dichloroethene	0.1	ND	0.0011
Methyl-t-Butyl Ether	NE	ND	ND
Methylene chloride	0.005	ND	ND
Tetrachloroethene	0.005	ND	ND
1,1,1-Trichloroethane	0.2	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND
Trichloroethene	0.005	ND	**0.053**
Vinyl Chloride	0.002	ND	ND

NOTES:

(1) - Tiered Approach to Corrective Action Objectives (TACO):(35 IAC, Part 742)-Appendix B: Table E: Tier 1 Ground Water Remediation Objectives (Class I).

ND - Not detected

NE - Not established

N/A - Not analyzed

Bold and underlined twice indicates concentration is above Class I remediation objectives.

Only those compounds detected above the laboratory detection limits are listed on this table.

mg/L: milligram per liter; parts per million (ppm)

TABLE 18
Summary of Analytical Data (Groundwater)
Task 5

Lockformer / Lisle, Illinois

Chemical Parameter	Class I GW Objectives (1) mg/L	Monitoring Well ID / Date Collected									
		MW-101 11/15/2000	MW-120 11/15/2000	MW-123 11/15/2000	MW-126 11/20/2000	MW-401 11/14/2000	MW-402 11/13/2000	MW-500D 11/14/2000	MW-501D 11/14/2000	MW-502S 11/14/2000	MW-504D 11/14/2000
VOCs											
Acetone	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.00002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NE	ND	ND	0.0016	0.0017	0.0015	0.0052	ND	ND	0.0019	ND
1,1-Dichloroethane	0.7	0.120	0.045	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.007	**0.140**	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.07	**7.6**	**0.078**	0.0042	ND	ND	**0.29**	**4.8**	ND	ND	ND
trans-1,2-Dichloroethene	0.1	**0.120**	**0.0037**	ND	ND	ND	0.013	0.071	ND	ND	ND
Methyl-t-Butyl Ether	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene chloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	**1.0**	**0.0046**	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	**17**	**0.01**	**0.010**	0.001	ND	**0.0096**	**2.1**	0.0025	ND	ND
Vinyl Chloride	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

(1) - Tiered Approach to Corrective Action Objectives (TACO):(35 IAC, Part 742)-Appendix B: Table E: Tier 1 Ground Water Remediation Objectives (Class I).

ND - Not detected

NE - Not established

N/A - Not analyzed

Bold and underlined twice indicates concentration is above Class I remediation objectives.

Only those compounds detected above the laboratory detection limits are listed on this table.

mg/L: milligram per liter; parts per million (ppm)

TABLE 18
Summary of Analytical Data (Groundwater)
Task 5

Lockformer / Lisle, Illinois

Chemical Parameter	Class I GW Objectives (1) mg/L	Monitoring Well ID / Date Collected								
		MW-508D 11/14/2000	MW-513D 11/13/2000	MW-514D 11/15/2000	MW-515D 11/13/2000	MW-516D 11/14/2000	MW-517D 11/14/2000	MW-520 11/20/2000	MW-521 11/20/2000	MW-522 11/20/2000
VOCs										
Acetone	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	0.00002	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NE	0.0021	0.0036	ND	ND	0.0015	ND	0.0042	0.001	ND
1,1-Dichloroethane	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.07	ND	ND	ND	**0.44**	**0.15**	**0.18**	0.0016	0.0041	0.0021
trans-1,2-Dichloroethene	0.1	ND	ND	ND	0.0088	0.0038	0.007	ND	ND	ND
Methyl-t-Butyl Ether	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene chloride	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.005	ND	ND	ND	ND	**0.19**	**0.0078**	0.0047	**0.0051**	0.0026
Vinyl Chloride	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

(1) - Tiered Approach to Corrective Action Objectives (TACO):(35 IAC, Part 742)-Appendix B: Table E: Tier 1 Ground Water Remediation Objectives (Class I).

ND - Not detected

NE - Not established

N/A - Not analyzed

Bold and underlined twice indicates concentration is above Class I remediation objectives.

Only those compounds detected above the laboratory detection limits are listed on this table.

mg/L: milligram per liter; parts per million (ppm)

TABLE 19
Analytical Soil Summary

Lockformer / Lisle, Illinois

Sample Location / Depth	Notes	Ground Elevation	Geological Material	PID (units)	Chemical Parameters Detected Above Class I Soil Objectives (mg/kg)					
					TCE	PCE	cis-1,2-DCE	VC	111-TCA	112-TCA
					0.06 (1)	0.06 (1)	0.4 (1)	0.01 (1)	2 (1)	0.02 (1)
					12 (2)	28 (2)	1,200 (2)	0.08 (2)	1,200 (2)	1,800 (2)
					8.9 (3)	20 (3)	1,200 (3)	0.06 (3)	1,200 (3)	1,800 (3)
Exterior Soil Borings / STS - 1992, 1995										
B-13 / 1-2'	E	97.35	SW Fill	73	**680**	**20**	NA	ND	**2.2**	ND
B-13 / 2-3'	E	97.35	Clay Fill	900	**310**	**9**	NA	ND	0.5	ND
B-13 / 3-4'	E	97.35	Clay Fill	800	**110**	**2.5**	NA	ND	0.2	**0.12**
B-14 / 1-2'	E	97.35	GP Fill	195	**120**	**1.7**	NA	ND	0.31	ND
B-15 / 3-4'	E	97.35	Clay Fill	35	**21**	**0.88**	NA	ND	0.11	ND
MW-101 / 20-21.5'		98.84	Gray ML-CL	--	**0.093**	ND	0.016 (total)	ND	ND	ND
MW-104 / 42-44'		98.2	SW/LM Frag	15	**1.1**	ND	ND	ND	ND	ND
MW-105 / 15-17'		99.16	Brn ML-CL	600	**960**	ND	ND	ND	ND	ND
MW-105 / 35-37'		99.16	SP/ML-CL	110	**9.2**	ND	ND	ND	ND	ND
MW-120 / 4-4.5'		95.58	Clay Fill	<1	0.00111	ND	NA	NA	ND	ND
MW-120 / 7.5-9.5'		95.58	Brn ML-CL	<1	0.0241	ND	NA	NA	ND	ND
MW-120 / 20-22'		95.58	Gry ML-CL	<1	ND	ND	ND (total)	ND	ND	ND
MW-120 / 35-37'		95.58	SW/LM Frag	--	**0.301**	ND	NA	NA	ND	ND
MW-120 / 40-42'		95.58	SW/LM Frag	<1	0.0035	ND	NA	NA	ND	ND
MW-120 / 45-47'		95.58	ML/LM Frag	<1	ND	ND	NA	NA	ND	ND
MW-120 / 47-49'		95.58	ML/LM Frag	<1	ND	ND	NA	NA	ND	ND
MW-120 / 55.5-57.7'		95.58	ML/LM Frag	<1	0.0023	ND	NA	NA	ND	ND
B-121 / 17.5-19.5'	E	96.5	Gry ML-CL	<1	0.0024	ND	NA	NA	ND	ND
B-121 / 45-47'	E	96.5	Gry ML-CL	<1	0.025	ND	NA	NA	ND	ND
B-121 / 50-52'	E	96.5	Gry ML-CL	<1	0.0022	ND	NA	NA	ND	ND
B-121 / 55-57'	E	96.5	SW/GW-ML	<1	0.0024	ND	NA	NA	ND	ND
B-122 / 2.5-4.5'	E	99	Clay Fill	5	ND	ND	0.0029	NA	ND	ND
B-122 / 10-12'	E	99	B/G ML-CL	<1	0.004	ND	0.091	NA	ND	ND
B-122 / 15-17'	E	99	Gry ML-CL	<1	0.0019	0.001	ND	NA	ND	ND
B-122 / 20-22'	E	99	Gry ML-CL	<1	0.0018	ND	ND	NA	ND	ND
B-122 / 25-27'	E	99	Gry ML-CL	<1	ND	ND	ND	NA	ND	ND
B-122 / 30-32'	E	99	Gry ML-CL	<1	**4**	0.0052	ND	ND	ND	ND
B-122 / 32.5-34.5'	E	99	SW/LM Frag	18	**0.91**	ND	ND	ND	ND	ND
MW-123 / 5-7'		99.85	Clay Fill	<1	ND	ND	0.02	NA	ND	ND
MW-123 / 7.5-9.5'		99.85	B/G ML-CL	<1	ND	ND	ND	NA	ND	ND
MW-123 / 15-17'		99.85	B/G ML-CL	<1	ND	ND	ND	NA	ND	ND
B-124 / 5-7'		101.25	Brn ML-CL	<1	0.0019	ND	ND	NA	ND	ND
B-124 / 7.5-9.5'		101.25	Brn ML-CL	<1	0.01	ND	0.0061	NA	ND	ND
B-124 / 10-12'		101.25	Brn ML-CL	<1	0.014	ND	ND	NA	ND	ND
B-124/ 12.5-14.5'		101.25	Gry ML-CL	<1	0.0015	ND	ND	NA	ND	ND

TABLE 19
Analytical Soil Summary

Lockformer / Lisle, Illinois

Sample Location / Depth	Notes	Ground Elevation	Geological Material	PID (units)	Chemical Parameters Detected Above Class I Soil Objectives (mg/kg)					
					TCE	PCE	cis-1,2-DCE	VC	111-TCA	112-TCA
					0.06 (1)	0.06 (1)	0.4 (1)	0.01 (1)	2 (1)	0.02 (1)
					12 (2)	28 (2)	1,200 (2)	0.08 (2)	1,200 (2)	1,800 (2)
					8.9 (3)	20 (3)	1,200 (3)	0.06 (3)	1,200 (3)	1,800 (3)
Exterior Soil Borings / STS - 1992, 1995 (continued)										
B-125 / 10-12'		97.12	Brn ML-CL	1	**0.11**	ND	0.0084	NA	ND	ND
B-125 / 15-17'		97.12	SW Frag	2	0.052	ND	0.0037	NA	ND	ND
B-125 / 17.5-19.5'		97.12	SW Frag	4	**0.1**	0.0012	0.0065	NA	ND	ND
B-125 / 20-22'		97.12	SW Frag	2	0.059	ND	0.0048	NA	ND	ND
B-125 / 25-27'		97.12	SW Frag	2	0.058	0.001	0.0076	NA	ND	ND
MW-126 / 12.5-14.5		94.11	Brn ML-CL	<1	ND	ND	ND	NA	ND	ND
MW-126 / 17.5-19.5		94.11	SW/LM Frag	<1	0.028	ND	ND	NA	ND	ND
MW-126 / 20-22'		94.11	SW/LM Frag	1	0.011	ND	ND	NA	ND	ND
MW-126 / 25-27'		94.11	SW/LM Frag	<1	0.013	ND	ND	NA	ND	ND
MW-126 / 35-37'		94.11	SW/LM Frag	<1	0.0058	ND	ND	NA	ND	ND
MW-126 / 50-52'		94.11	SP	<1	0.0058	0.0011	ND	NA	ND	ND
MW-126 / 65-67'		94.11	SP	<1	ND	ND	ND	NA	ND	ND
MW-126 / 70-72'		94.11	LM	<1	ND	0.0014	ND	NA	ND	ND
MW-126 / 75-77'		94.11	LM	<1	ND	0.0017	ND	NA	ND	ND
MW-401 / 6-7.5'		97.78	Organic Clay	<1	ND	ND	ND	ND	ND	ND
MW-401 / 28.5-30'		97.78	Gry ML-CL	<1	ND	**0.14**	ND	ND	ND	ND
MW-401 / 53.5-55'		97.78	Clayey ML	<1	ND	ND	ND	ND	ND	ND
MW-402 / 5-6.5'		91.18	Clay Fill	<1	ND	ND	ND	ND	ND	ND
MW-402 / 14-15'		91.18	SW/SM	<1	ND	ND	ND	ND	ND	ND
MW-402 / 48.5-50'		91.18	ML	<1	ND	ND	ND	ND	ND	ND
MW-403 / 6-7.5'		99.3	Organic Clay	<1	ND	ND	ND	ND	ND	ND
MW-403 / 43.5-45'		99.3	SM	<1	ND	ND	ND	ND	ND	ND
MW-403 / 58.5-60'		99.3	ML	<1	ND	ND	ND	ND	ND	ND
B-404 / 3.5-5'	E	99.3	Organic Clay	<1	ND	ND	ND	ND	ND	ND
B-404 / 38.5-40'	E	99.3	SW/LM Frag	<1	ND	ND	ND	ND	ND	ND
B-405 / 6-7.5'	E	99.95	Clay Fill	<1	ND	ND	ND	ND	ND	ND
B-405 / 33.5-35'	E	99.95	SW/LM Frag	--	ND	ND	ND	ND	ND	ND
Soil Borings & Wells / CEI - 1998, 1999										
SB-500-MW-500S / 15-17'		91.2	SW / LM Frag	0	**0.082**	ND	0.03	ND	ND	ND
MW-500D / 35-37'		91.33	SW / LM Frag	26.7	**0.18**	ND	0.098	ND	ND	ND
SB-501-MW-501S / 11-13'		94.71	B/G Mottled ML-CL	0	ND	ND	ND	ND	ND	ND
MW-501D / 35-37'		94.86	SW / GP	10	**0.14**	ND	ND	ND	ND	ND
MW-501D / 42-44'		94.86	SM - Sandy Silt	4.4	ND	ND	ND	ND	ND	ND
SB-502-MW-502S / 7-9'		99.08	ML-CL Fill	0	ND	ND	ND	ND	ND	ND

TABLE 19
Analytical Soil Summary

Lockformer / Lisle, Illinois

Sample Location / Depth	Notes	Ground Elevation	Geological Material	PID (units)	Chemical Parameters Detected Above Class I Soil Objectives (mg/kg)					
					TCE	PCE	cis-1,2-DCE	VC	111-TCA	112-TCA
					0.06 (1)	0.06 (1)	0.4 (1)	0.01 (1)	2 (1)	0.02 (1)
					12 (2)	28 (2)	1,200 (2)	0.08 (2)	1,200 (2)	1,800 (2)
					8.9 (3)	20 (3)	1,200 (3)	0.06 (3)	1,200 (3)	1,800 (3)
Soil Borings & Wells / CEI - 1998, 1999 (continued)										
SB-503-MW-503S / 7-9'		99.95	Mixed Fill	13.5	ND	ND	ND	ND	ND	ND
SB-504-MW-504S / 5-7'		98.54	Organic Fill	17.5	ND	ND	ND	ND	ND	ND
MW-504D / 58-60'		99.13	ML	5.1	ND	ND	ND	ND	ND	ND
SB-505-MW-505S / 15-17'		97.28	ML / SP	8.6	ND	ND	ND	ND	ND	ND
SB-506-MW-506S / 11-13'		101.18	Gray ML-CL	2.4	ND	0.0054	0.0029	ND	ND	ND
SB-507-MW-507S / 23-25'		101.9	SW	0	0.0088	ND	ND	ND	ND	ND
SB-508-MW-508S / 17-19'		99.17	Brown CL	0	0.0033	0.014	ND	ND	ND	ND
MW-508D / 60-62'		99.21	ML-CL	5.6	ND	ND	ND	ND	ND	ND
SB-509 / 9-11'		97.95	Mixed Fill	2.1	0.011	ND	0.031	ND	ND	ND
SB-509 / 13-15'		97.95	ML-CL	77.4	**1.7**	0.005	0.14	ND	0.0065	0.0032
SB-510 / 9-11'		95.65	Organic Fill	0	0.013	ND	ND	ND	ND	ND
SB-511 / 11-13'		95.83	Organic Fill	0	ND	ND	ND	ND	ND	ND
SB-512 / 9-11'		95.01	Organic Fill / ML-CL	0	0.0029	ND	ND	ND	ND	ND
Interior Soil Borings / STS - 1997										
B-301 / 1-3.5'	E	100+	Clay Fill	1	0.0097	ND	ND	ND	ND	ND
B-302 / 1-3'	E	100+	Clay Fill	2	**0.12**	ND	ND	ND	ND	ND
B-303 / 1-3'	E	100+	Clay Fill	4	**0.78**	ND	ND	ND	ND	ND
B-304 / 1-3'	E	100+	Clay Fill	<1	**0.13**	ND	ND	ND	ND	ND
B-304 / 7-9'	E	100+	Clay Fill	<1	ND	ND	ND	ND	ND	ND
B-305 / 1-3'	E	100+	Clay Fill	1	**0.12**	ND	ND	ND	ND	ND
B-305 / 8-10'	E	100+	Bm ML-CL	<1	ND	ND	ND	ND	ND	ND
B-306 / 1-3'	E	100+	Clay Fill	12	**0.61**	ND	ND	ND	ND	ND
B-306 / 8-10'	E	100+	Organic Fill	<1	ND	ND	ND	ND	ND	ND
B-307 / 4-6'	E	100+	Clay Fill	30	**22**	ND	ND	ND	ND	ND
B-307 / 12.5-15'	E	100+	Bm ML-CL	--	**0.23**	ND	0.043	ND	ND	ND
B-308 / 1-5'	E	100+	Clay Fill	<1	0.012	ND	ND	ND	ND	ND
B-308 / 8-10'	E	100+	B/G ML-CL	2	0.0068	ND	ND	ND	ND	ND
B-309 / 5.5-8'	E	100+	Bm ML-CL	<1	ND	ND	ND	ND	ND	ND
B-310 / 1-3'	E	100+	Clay Fill	1	ND	ND	ND	ND	ND	ND
Task 2 Soil Borings / CEI - 1999										
SB-600 / 0-2'		94.18	ML-CL Fill	7.2	ND	ND	ND	ND	ND	ND
SB-600 / 8-10'		94.18	B/G ML-CL	8.8	**9.2**	0.0064	**0.59**	0.0072	0.0087	ND
SB-600 / 14-16'		94.18	B/G ML-CL	2.3	ND	ND	ND	ND	ND	ND
SB-600 / 18-20'		94.18	Gray ML-CL	5.9	ND	ND	ND	ND	ND	ND

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Lockformer / Lisle, Illinois

Sample Location / Depth	Notes	Ground Elevation	Geological Material	PID (units)	Chemical Parameters Detected Above Class I Soil Objectives (mg/kg)					
					TCE	PCE	cis-1,2-DCE	VC	111-TCA	112-TCA
					0.06 (1)	0.06 (1)	0.4 (1)	0.01 (1)	2 (1)	0.02 (1)
					12 (2)	28 (2)	1,200 (2)	0.08 (2)	1,200 (2)	1,800 (2)
					8.9 (3)	20 (3)	1,200 (3)	0.06 (3)	1,200 (3)	1,800 (3)
Task 2 Soil Borings / CEI - 1999 (continued)										
SB-600 / 24-26'		94.18	Gray ML-CL	8.8	0.0088	ND	ND	ND	ND	ND
SB-600 / 35-37'		94.18	SW / LM Frag.	11.3	**0.24**	ND	0.037	ND	ND	ND
SB-601 / 2-4'		95.42	Mixed Fill	7	0.044	ND	0.015	ND	ND	ND
SB-601 / 6-8'		95.42	Mixed Fill	5.8	0.017	ND	0.056	ND	ND	ND
SB-601 / 12-14'		95.42	B/G Mottled ML-CL	7.6	0.019	ND	0.1	ND	ND	ND
SB-601 / 18-20'		95.42	B/G Mottled ML-CL	38.6	ND	ND	ND	ND	ND	ND
SB-601 / 26-28'		95.42	SW / LM Frag.	3.6	ND	ND	ND	ND	ND	ND
SB-601 / 35-37'		95.42	SW / LM Frag.	9.5	**0.33**	ND	ND	ND	ND	ND
SB-602 / 2-4'		96.41	Mixed Fill	18.5	ND	ND	0.099	ND	ND	ND
SB-602 / 10-12'		96.41	Brown ML-CL	8.2	**0.097**	ND	0.13	ND	ND	ND
SB-602 / 16-18'		96.41	Gray ML-CL (Sat)	99.9	ND	ND	ND	ND	ND	ND
SB-602 / 23-25'		96.41	Gray ML-CL	0.3	ND	ND	ND	ND	ND	ND
SB-602 / 35-37'		96.41	SW / LM Frag.	10.6	**2.4**	0.036	ND	ND	ND	ND
SB-602 / 45-47'		96.41	Clayey ML; moist	39.3	**13**	ND	ND	ND	ND	ND
SB-603 / 2-4'		97.35	Mixed Fill	34	**1.9**	**0.22**	**0.77**	ND	ND	ND
SB-603 / 6-8'		97.35	Brown ML-CL	100.4	0.013	ND	**0.6**	**0.082**	ND	ND
SB-603 / 10-12'		97.35	Brown ML-CL	251.9	**1.4**	ND	**2.9**	ND	ND	ND
SB-603 / 16-18'		97.35	Brown ML-CL	310	**0.96**	0.017	**4.5**	ND	ND	ND
SB-603 / 26-28'		97.35	Gray ML-CL	44.6	0.021	ND	0.036	ND	ND	ND
SB-604 / 6-8'		98.45	Brown ML-CL	2000+	**0.8**	ND	**27**	**1.1**	0.21	ND
SB-604 / 12-14'		98.45	Brown ML-CL	2000+	**25**	**0.57**	**17**	**0.26**	**4.2**	ND
SB-604 / 18-20'		98.45	Gray ML-CL	2000+	**720**	**8.2**	Diluted	Diluted	Diluted	Diluted
SB-605 / 2-4'		99.04	ML-CL Fill	7.2	**0.15**	ND	0.025	ND	ND	ND
SB-605 / 8-10'		99.04	Brown ML-CL	12.9	0.06	0.011	0.008	ND	ND	ND
SB-605 / 10-12'		99.04	Brown ML-CL	58.2	**0.12**	0.01	0.012	ND	ND	ND
SB-605 / 18-20'		99.04	Gray ML-CL	0	ND	ND	ND	ND	ND	ND
SB-605 / 26-28'		99.04	Gray ML-CL	0	0.0068	ND	ND	ND	ND	ND
SB-605 / 35-37'		99.04	Brown ML-CL	0	**9.6**	**0.28**	ND	ND	ND	ND
SB-605 / 43-45'		99.04	SW / LM Frag.	130	**7.8**	**0.15**	ND	ND	ND	ND
SB-605 / 52-54'		99.04	ML-CL / ML	15.3	ND	ND	ND	ND	ND	ND
SB-606 / 0-2'		98.26	S/G Fill	4.6	0.013	ND	0.28	ND	ND	ND
SB-606 / 6-8'		98.26	Mixed Fill	0	0.032	ND	ND	ND	ND	ND
SB-606 / 10-12'		98.26	ML-CL Fill	5.7	0.0077	ND	0.0082	ND	ND	ND
SB-606 / 16-18'		98.26	Gray ML-CL	0	**0.063**	0.0077	0.11	0.01	ND	ND
SB-606 / 28-30'		98.26	Gray ML-CL	5.7	ND	ND	ND	ND	ND	ND

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Lockformer / Lisle, Illinois

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					TCE	PCE	cis-1,2-DCE	VC	111-TCA	112-TCA
					0.06 (1)	0.06 (1)	0.4 (1)	0.01 (1)	2 (1)	0.02 (1)
					12 (2)	28 (2)	1,200 (2)	0.08 (2)	1,200 (2)	1,800 (2)
					8.9 (3)	20 (3)	1,200 (3)	0.06 (3)	1,200 (3)	1,800 (3)
Task 2 Soil Borings / CEI - 1999 (continued)										
SB-607 / 8-10'		96.5	Brown ML-CL	0	0.027	0.0076	**0.82**	**0.031**	ND	ND
SB-607 / 12-14'		96.5	Brown ML-CL	4.1	0.033	0.0082	**0.77**	**0.065**	ND	ND
SB-607 / 16-18'		96.5	Gray ML-CL	43.8	0.016	ND	0.31	0.0064	ND	ND
SB-607 / 24-26'		96.5	Gray ML-CL	0	ND	ND	ND	ND	ND	ND
SB-607 / 35-37'		96.5	SW / LM Frag.	57.3	**3.1**	**0.12**	ND	ND	ND	ND
SB-608 / 4-6'		95.66	Brown ML-CL	135.9	**1.3**	ND	**0.61**	ND	ND	ND
SB-608 / 12-14'		95.66	Brown ML-CL	136.5	**22**	ND	**0.77**	**0.012**	0.014	ND
SB-608 / 18-20'		95.66	Gray ML-CL	55.6	**21**	0.0078	**0.74**	**0.052**	ND	ND
SB-608 / 35-37'		95.66	SW / LM Frag.	10.2	**1.2**	ND	ND	ND	ND	ND
SB-608 / 42-44'		95.66	SP / ML / ML-CL	15.3	**0.15**	ND	0.019	ND	ND	ND
SB-609 / 8-10'		92.75	B/G Mottled ML-CL	28.8	**3.4**	ND	0.36	0.0071	ND	ND
SB-609 / 12-14'		92.75	B/G Mottled ML-CL	6.7	**0.073**	ND	**2**	**0.066**	ND	ND
SB-609 / 16-18'		92.75	Gray ML-CL	0	ND	ND	ND	ND	ND	ND
SB-609 / 37-39'		92.75	SP (dry)	63.1	**3**	ND	0.39	ND	ND	ND
SB-609 / 43-45'		92.75	ML-CL / ML	0	ND	ND	ND	ND	ND	ND
SB-610 / 10-12'		92.39	Brown ML-CL	28.8	**5.3**	ND	**0.91**	0.01	0.007	ND
SB-610 / 16-18'		92.39	Gray ML-CL	6.7	**0.22**	ND	**0.41**	**0.077**	ND	ND
SB-610 / 26-28'		92.39	Brown ML-CL	5.2	**2**	ND	**0.61**	ND	ND	ND
SB-611 / 12-14'		92.1	B/G Mottled ML-CL	0	**2.3**	ND	**0.54**	ND	ND	ND
SB-611 / 16-17'		92.1	SW / LM Frag.	24.7	**1.3**	ND	0.31	ND	ND	ND
SB-611 / 26-28'		92.1	SW / LM Frag.	2.5	0.022	ND	ND	ND	ND	ND
SB-611 / 35-37'		92.1	SW / LM Frag.	6.8	**0.22**	ND	0.041	ND	ND	ND
SB-611 / 42-44'		92.1	ML-CL / ML (Sat)	19	ND	ND	ND	ND	ND	ND
SB-612 / 8-10'		98.69	Mixed Fill	63.3	ND	ND	ND	ND	ND	ND
SB-612 / 12-15'		98.69	B/G Mottled ML-CL	0	ND	ND	ND	ND	ND	ND
SB-612 / 15-18'		98.69	B/G Mottled ML-CL	0	ND	ND	ND	ND	ND	ND
SB-612 / 28-30'		98.69	SW / LM Frag.	0	**0.67**	ND	0.11	ND	ND	ND
SB-612 / 37-39'		98.69	SW / LM Frag.	---	**0.51**	ND	0.094	ND	ND	ND
SB-612 / 47-49'		98.69	ML-CL / ML	4.9	ND	ND	0.067	ND	ND	ND
SB-613 / 8-10'		99.54	ML-CL Fill	0	ND	ND	ND	ND	ND	ND
DUP-3 (SB-613 / 8-10')		99.54	ML-CL Fill	0	ND	ND	ND	ND	ND	ND
SB-613 / 12-15'		99.54	Brown ML-CL	0	**0.087**	ND	0.024	ND	ND	ND
SB-613 / 18-20'		99.54	Brown ML-CL	0	ND	ND	ND	ND	ND	ND
SB-613 / 25-28'		99.54	Gray ML-CL	0	ND	ND	ND	ND	ND	ND

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Lockformer / Lisle, Illinois

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					TCE	PCE	cis-1,2-DCE	VC	111-TCA	112-TCA
					0.06 (1)	0.06 (1)	0.4 (1)	0.01 (1)	2 (1)	0.02 (1)
					12 (2)	28 (2)	1,200 (2)	0.08 (2)	1,200 (2)	1,800 (2)
					8.9 (3)	20 (3)	1,200 (3)	0.06 (3)	1,200 (3)	1,800 (3)
Task 2 Soil Borings / CEI - 1999 (continued)										
SB-613 / 37-39'		99.54	SP (dry)	3.5	**1.3**	ND	0.12	ND	ND	ND
SB-614 / 12-15'		95.65	Brown ML-CL	0	ND	ND	ND	ND	ND	ND
SB-614 / 18-20'		95.65	SW / LM Frag.	0	ND	ND	ND	ND	ND	ND
SB-614 / 22-24'		95.65	SW / LM Frag.	4.4	ND	ND	ND	ND	ND	ND
SB-614 / 37-39'		95.65	SW / LM Frag.	2.5	ND	ND	ND	ND	ND	ND
SB-614 / 44-46'		95.65	SW / ML-CL	---	0.0098	ND	ND	ND	ND	ND
SB-615 / 12-15'		97.32	Brown ML-CL	3.8	0.027	ND	ND	ND	ND	ND
SB-615 / 18-21'		97.32	SW / LM Frag.	6.6	0.011	ND	ND	ND	ND	ND
SB-616 / 8-10'	H	100.33	Brown ML-CL	9.3	ND	ND	ND	ND	ND	ND
SB-616 / 10-12'		100.33	Brown ML-CL	24.3	**0.17**	ND	**2.4**	ND	ND	ND
SB-616 / 15-17'		100.33	Brown ML-CL	15.6	**18**	ND	0.26	ND	ND	ND
SB-616 / 17-20'		100.33	Brown ML-CL	3	**4.2**	ND	0.36	ND	ND	ND
SB-617 / 38-40'		98.38	SW / LM Frag.	7.8	**0.21**	ND	ND	ND	ND	ND
SB-618 / 12-14'		93.31	B/G Mottled ML-CL	4.5	0.021	ND	0.0077	ND	ND	ND
SB-618 / 34-36'		93.31	SW / LM Frag.	6.5	0.007	ND	ND	ND	ND	ND
DUP-4 (SB-618 / 34-36')		93.31	SW / LM Frag.	6.5	0.015	ND	ND	ND	ND	ND
SB-619 / 30-32'		101.25	Gray ML-CL	0	ND	ND	ND	ND	ND	ND
SB-619 / 36-38'		101.25	Gray ML-CL	0.9	ND	ND	ND	ND	ND	ND
SB-620 / 28-30'		99.28	Gray ML-CL	1.9	ND	ND	ND	ND	ND	ND
SB-620 / 36-38'		99.28	SW / LM Frag.	0	0.015	ND	ND	ND	ND	ND
SB-621 / 10-12'		99.12	Gray ML-CL	2.4	0.025	ND	0.011	ND	ND	ND
SB-621 / 28-30'		99.12	Gray ML-CL	4.1	ND	ND	ND	ND	ND	ND
SB-621 / 35-37'		99.12	SW / LM Frag.	33.1	**2.1**	0.053	ND	ND	ND	ND
SB-622 / 10-12'		94.75	ML-CL Fill	3.1	ND	ND	ND	ND	ND	ND
SB-622 / 17-19'		94.75	SW / LM Frag.	5.5	ND	ND	ND	ND	ND	ND
Additional Soil Borings / CEI - 09/1999										
SB-623 / 4-6'		93.3	B/G Mottled ML-CL	367	**0.31**	ND	0.24	ND	ND	ND
SB-623 / 8-10'		93.3	B/G Mottled ML-CL	710	0.045	ND	0.039	ND	ND	ND
SB-623 / 12-14'		93.3	B/G Mottled ML-CL	179.9	ND	ND	ND	ND	ND	ND
SB-624 / 6-8'		93.3	Brown ML-CL	80.6	0.014	ND	0.012	ND	ND	ND
SB-624 / 10-12'		93.3	Brown ML-CL	53.1	ND	ND	0.039	ND	ND	ND
SB-625 / 2-4'		96.52	ML-CL Fill	279	ND	ND	ND	ND	ND	ND
SB-625 / 6-8'		96.52	B/G Mottled ML-CL	105.8	ND	ND	ND	ND	ND	ND
SB-625 / 12-14'		96.52	B/G Mottled ML-CL	194.2	ND	ND	ND	ND	ND	ND

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					TCE	PCE	cis-1,2-DCE	VC	111-TCA	112-TCA
					0.06 (1)	0.06 (1)	0.4 (1)	0.01 (1)	2 (1)	0.02 (1)
					12 (2)	28 (2)	1,200 (2)	0.08 (2)	1,200 (2)	1,800 (2)
					8.9 (3)	20 (3)	1,200 (3)	0.06 (3)	1,200 (3)	1,800 (3)
Deep Monitoring Wells / CEI - 1999										
MW-513D / 15-17'		94.51	Gray ML-CL	2.6	ND	ND	ND	ND	ND	ND
MW-513D / 50-52'		94.51	ML-CL / ML (Sat).	0	ND	ND	ND	ND	ND	ND
MW-514D / 35-37'	H	88.68	SW / LM Frag.	0	0.033	ND	ND	ND	ND	ND
MW-514D / 45-47'		88.68	ML-CL / ML (Sat).	4.8	ND	ND	ND	ND	ND	ND
MW-515D / 15-17'		90.57	SW / LM Frag.	8.5	0.0065	ND	ND	ND	ND	ND
MW-515D / 25-27'	H	90.57	SW / LM Frag.	4.6	ND	ND	ND	ND	ND	ND
MW-515D / 35-37'		90.57	SP (Sat) / ML-CL	24.9	**0.7**	ND	0.16	ND	ND	ND
MW-516D / 25-27'		88.27	SW / LM Frag.	4.2	ND	ND	ND	ND	ND	ND
MW-516D / 35-37'		88.27	SW / LM Frag.	—	ND	ND	ND	ND	ND	ND
MW-517D / 35-37'		97.33	SW / LM Frag.	3.8	ND	ND	ND	ND	ND	ND
MW-517D / 55-57'		97.33	Gray ML-CL	5.3	ND	ND	ND	ND	ND	ND
Southern Off-Site Property / CEI - 12/99										
MW-518D / 6-8'		77.72	CL/SW	0	ND	ND	ND	ND	ND	ND
MW-518D / 32-34'		77.72	SP	0	ND	ND	ND	ND	ND	ND
MW-518D / 52-54'		77.72	SM	0	ND	ND	ND	ND	ND	ND
MW-519D / 8-10'		84.27	SW/LM Frag	0	ND	ND	ND	ND	ND	ND
MW-519D / 33-35'		84.27	SW/LM Frag	0	ND	ND	ND	ND	ND	ND
MW-519D / 50-52'		84.27	Gry ML-CL	0	ND	ND	ND	ND	ND	ND
SB-700 / 0-2'	E	E - 86	Organic Top	0	ND	ND	ND	ND	ND	ND
SB-701 / 2-4'	E	E - 86	Organic Top	0	ND	ND	ND	ND	ND	ND
SB-702 / 4-6'	E	E-78	Organic Top	0	ND	ND	ND	ND	ND	ND
Soil Borings - CEI - 11/00		**Prep Method 5035**								
SB-800C / 4-6'		101.26	Brown ML-CL	0	ND	ND	ND	ND	ND	ND
SB-800I / 16-18'		101.26	Gray ML-CL	0	ND	ND	ND	ND	ND	ND
SB-801B / 2-4'		98.28	ML-CL Fill	0.5	ND	ND	ND	ND	ND	ND
SB-801F / 10-12'		98.28	B/G Mottled ML-CL	0.2	0.0095	ND	0.015	ND	ND	ND
SB-801I / 16-18'		98.28	Gray ML-CL	0.4	ND	ND	ND	ND	ND	ND
SB-801K /28-30'		98.28	Gray ML-CL	62	ND	ND	ND	ND	ND	ND
SB-801L / 35-37'		98.28	SW / LM Frag.	14.9	**3.9**	**0.082**	ND	ND	ND	ND
SB-801M / 45-47'		98.28	SW / LM Frag.	34.7	**8.2**	ND	ND	ND	ND	ND
SB-802H / 14-16'	H	98.28	Mixed Fill	0.3	ND	ND	ND	ND	ND	ND
SB-802I / 16-18'		101.73	Mixed Fill	1.2	ND	ND	ND	ND	ND	ND
SB-802K / 28-30'		101.73	SW / LM Frag.	0	0.01	ND	ND	ND	ND	ND
SB-802L / 38-40'		101.73	SW / LM Frag.	0	ND	ND	ND	ND	ND	ND

TABLE 19
Analytical Soil Summary

Lockformer / Lisle, Illinois

Sample Location / Depth	Notes	Ground Elevation	Geological Material	PID (units)	Chemical Parameters Detected Above Class I Soil Objectives (mg/kg)					
					TCE	PCE	cis-1,2-DCE	VC	111-TCA	112-TCA
					0.06 (1)	0.06 (1)	0.4 (1)	0.01 (1)	2 (1)	0.02 (1)
					12 (2)	28 (2)	1,200 (2)	0.08 (2)	1,200 (2)	1,800 (2)
					8.9 (3)	20 (3)	1,200 (3)	0.06 (3)	1,200 (3)	1,800 (3)
Soil Borings - CEI - 11/00 (continued)										
SB-802M / 48-50'		101.73	SW / LM Frag.	0	0.0068	ND	ND	ND	ND	ND
SB-803H / 14-16'		100.29	Brown ML-CL	2.6	1.4	ND	0.1	ND	ND	ND
SB-803L / 48-50'		100.29	SW / LM Frag.	0	ND	ND	ND	ND	ND	ND
SB-804F / 10-12'		100.17	ML-CL Fill	0	ND	ND	ND	ND	ND	ND
SB-804H / 14-16'	H	100.17	Brown ML-CL	0.7	ND	ND	0.088	0.0068	ND	ND
SB-804I / 16-18'		100.17	Brown ML-CL	0.6	ND	ND	0.068	0.0077	ND	ND
SB-804K / 28-30'	H	100.17	Gray ML-CL	0	ND	ND	ND	ND	ND	ND
SB-804M / 38-40'		100.17	SW / LM Frag.	0.3	0.34	ND	ND	ND	ND	ND
SB-805G / 12-14'		98.78	B/G Mottled ML-CL	6.9	ND	ND	0.84	0.15	ND	ND
SB-805I / 16-18'		98.78	B/G Mottled ML-CL	22.8	25	ND	2.5	ND	ND	ND
SB-805L / 22-24'		98.78	Gray ML-CL	0.7	ND	ND	ND	ND	ND	ND
SB-805M / 28-30'		98.78	Brown ML-CL	0.5	1.0	ND	ND	ND	ND	ND
SB-805N / 38-40'		98.78	SW	10.8	6.5	ND	0.8	ND	ND	ND
SB-805O / 46-48'		98.78	SP / ML	4.9	22	ND	26	ND	ND	ND
SB-806C / 4-6'		97.43	Mixed Fill	0.9	ND	ND	ND	ND	ND	ND
SB-806H / 14-16'		97.43	B/G Mottled ML-CL	1.1	0.096	ND	0.045	0.0053	ND	ND
SB-806M / 28-30'		97.43	SC / LM Frag.	0.6	0.14	ND	0.028	ND	ND	ND
SB-806N / 38-40'		97.43	SW / LM Frag.	4.5	1.5	ND	ND	ND	ND	ND
SB-806P / 48-50'	H	97.43	ML / SW / LM Frag.	0	ND	ND	ND	ND	ND	ND
SB-807H / 14-16'		98.3	Brown ML-CL	0.1	ND	ND	ND	ND	ND	ND
SB-807J / 28-30'		98.3	SW / LM Frag.	0	0.033	ND	ND	ND	ND	ND
SB-807K / 38-40'		98.3	SW / LM Frag.	0.1	0.062	ND	0.0073	ND	ND	ND
SB-807M / 48-50'		98.3	ML-CL	7.6	51.0	ND	27	ND	ND	ND
SB-808B / 2-4'		98.34	Mixed Fill	0	ND	ND	ND	ND	ND	ND
SB-808E / 8-10'		98.34	Mixed Fill	1.6	ND	ND	ND	ND	ND	ND
SB-808F / 10-12'	H	98.34	Fill / ML-CL	0	ND	ND	ND	ND	ND	ND
SB-808J / 18-20'		98.34	Gray ML-CL	0	ND	ND	ND	ND	ND	ND
SB-808L / 28-30'		98.34	Gray ML-CL	0.5	ND	ND	ND	ND	ND	ND
SB-808M / 38-40'		98.34	SW / LM Frag.	0	1.4	ND	ND	ND	ND	ND
Monitoring Wells - CEI - 11/00										
MW-520C / 4-6'		88.7	ML-CL Fill	22.7	ND	ND	ND	ND	ND	ND
MW-520J / 18-20'		88.7	ML-CL Fill	0.6	ND	ND	ND	ND	ND	ND
MW-520U / 48-50'	H	88.7	SP (wet)	0.2	0.10	ND	ND	ND	ND	ND
MW-520Y / 63-65'		88.7	ML / LM Frag	---	ND	ND	ND	ND	ND	ND

TABLE 19
Analytical Soil Summary

Lockformer / Lisle, Illinois

Sample Location / Depth	Notes	Ground Elevation	Geological Material	PID (units)	Chemical Parameters Detected Above Class I Soil Objectives (mg/kg)					
					TCE	PCE	cis-1,2-DCE	VC	111-TCA	112-TCA
					0.06 (1)	0.06 (1)	0.4 (1)	0.01 (1)	2 (1)	0.02 (1)
					12 (2)	28 (2)	1,200 (2)	0.08 (2)	1,200 (2)	1,800 (2)
					8.9 (3)	20 (3)	1,200 (3)	0.06 (3)	1,200 (3)	1,800 (3)
Monitoring Wells - CEI - 11/00 (continued)										
MW-521F / 10-12'		95.71	ML-CL Fill	0.3	ND	ND	ND	ND	ND	ND
MW-521J / 28-30'	H	95.71	SW / LM Frag.	0.1	ND	ND	ND	ND	ND	ND
MW-521L / 48-50'	H	95.71	SW / LM Frag.	0	ND	ND	ND	ND	ND	ND
MW-521M / 55-57'	H	95.71	ML / LM Frag	0	0.0052	ND	ND	ND	ND	ND
MW-522G / 12-14'		93.3	SW / LM Frag.	0.3	ND	ND	ND	ND	ND	ND
MW-522K / 28-30'	H	93.3	SP (dry)	0	0.02	ND	ND	ND	ND	ND
MW-522L / 38-40'	H	93.3	B-G ML-CL	0.1	ND	ND	ND	ND	ND	ND
MW-522M / 48-50'	H	93.3	SP (wet)	0.3	**0.81**	ND	ND	ND	ND	ND
MW-522N / 55-57'	H	93.3	Clayey ML	0.7	ND	ND	ND	ND	ND	ND

NOTES:

(1) - Tiered Approach to Corrective Action Objectives (TACO):(35 IAC, Part 742)-Appendix B: Table B: Tier 1
Class 1 Migration to Ground Water Remediation Objectives (Industrial / Commercial Properties).

(2) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soils for
Construction Workers (most stringent inhalation or ingestion objective is listed) (Industrial / Commercial Properties).

(3) - TACO - Appendix B: Table B: Tier 1 Exposure Route-Specific Values for Soils
Industrial / Commercial (most stringent inhalation or ingestion objective is listed).

ND - Not detected

NA - Not analyzed

Bold and double underlined indicates concentration is above most stringent remediation objectives listed.

Only those compounds detected above their corresponding remediation objective are listed on this table.

mg/kg: milligram per kilogram; parts per million (ppm)

E - Estimated ground elevation

H - Holding time exceeded for soil sample; however, sample was still analyzed.

TCE - Trichloroethene; PCE - Tetrachloroethene; cis-1,2-DCE - cis-1,2-dichloroethene

VC - Vinyl chloride; 111-TCA - 111-Trichloroethane; 112-TCA - 112-Trichloroethane

TABLE 20
Analytical Groundwater Summary

Lockformer / Lisle, Illinois

Monitoring Well Locations	Date Sampled	Chemical Parameters Detected above Class I Groundwater Objectives (mg/L)											
		Benzene	Chloroform	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Vinyl Chloride
		0.005 (1)	0.00002 (1)	0.005 (1)	0.007 (1)	0.07 (1)	0.1 (1)	0.005 (1)	0.005 (1)	0.2 (1)	0.005 (1)	0.005 (1)	0.002 (1)
STS Monitoring Wells													
MW-101	Nov-96	0.0046	0.007	ND	0.53	38	0.49	0.063	0.0095	48	0.057	68	0.073
MW-101	Aug-98	ND	0.0036	0.025	0.5	42	0.6	0.018	0.0065	3.3	0.03	54	0.048
MW-101	2/5/1999	ND	ND	ND	1.1	41	0.73	ND	ND	8.2	ND	83	ND
MW-101	11/15/2000	ND	ND	ND	0.14	7.6	0.12	ND	ND	1.0	ND	17	ND
MW-120	Nov-96	ND	ND	ND	ND	0.079	0.0035	ND	ND	ND	ND	0.059	ND
MW-120	Aug-98	ND	ND	ND	ND	0.072	ND	0.0076	ND	ND	ND	0.0055	ND
MW-120	2/15/1999	ND	ND	ND	ND	0.07	0.0037	ND	ND	0.0031	ND	0.007	ND
DUP-5 / MW-120	2/15/1999	ND	ND	ND	ND	0.069	0.0036	ND	ND	0.0037	ND	0.0076	ND
MW-120	11/15/2000	ND	ND	ND	ND	0.078	0.0037	ND	ND	0.0046	ND	0.01	ND
MW-123	Nov-96	ND	ND	ND	ND	0.0022	ND	ND	ND	ND	ND	0.0024	ND
MW-123	Aug-98	0.017	ND	ND	0.0034	0.13	0.0035	0.0033	ND	0.033	ND	0.43	ND
MW-123	2/5/1999	ND	ND	ND	ND	0.013	ND	ND	ND	0.0014	ND	0.027	ND
MW-123	11/15/2000	ND	ND	ND	ND	0.0042	ND	ND	ND	ND	ND	0.01	ND
MW-126	Nov-97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0013	ND
MW-126	Aug-98	ND	ND	ND	ND	ND	ND	0.0049	ND	ND	ND	0.0063	ND
MW-126	11/1/1998	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-126	2/19/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-126	11/20/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND
MW-401	Aug-97	ND	ND	ND	ND	0.034	ND	ND	0.015	ND	ND	0.0072	ND
MW-401	Aug-98	ND	ND	ND	ND	ND	ND	0.0042	ND	ND	ND	ND	ND
MW-401	2/15/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-401	11/14/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-402	Aug-97	ND	ND	ND	ND	0.029	0.001	ND	ND	ND	ND	0.0014	ND
MW-402	Aug-98	ND	ND	ND	ND	0.18	0.0083	0.0029	ND	ND	ND	0.0084	ND
MW-402	2/15/1999	ND	ND	ND	ND	0.17	0.0075	ND	ND	ND	ND	0.03	ND
MW-402	11/13/2000	ND	ND	ND	ND	0.29	0.013	ND	ND	ND	ND	0.0096	ND
MW-403	Aug-97	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-403	Aug-98	ND	ND	ND	ND	ND	ND	0.0046	ND	ND	ND	ND	ND
MW-403	2/15/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-403	11/15/2000	Buried-unable to sample											
MW-104	Apr-95	Dry											
MW-104	Aug-98	Dry											
MW-104	2/10/1999	Dry											
MW-104	11/15/2000	Dry											

TABLE 20
Analytical Groundwater Summary

Lockformer / Lisle, Illinois

Monitoring Well Locations	Date Sampled	Chemical Parameters Detected above Class I Groundwater Objectives (mg/L)											
		Benzene	Chloroform	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Vinyl Chloride
		0.005 (1)	0.00002 (1)	0.005 (1)	0.007 (1)	0.07 (1)	0.1 (1)	0.005 (1)	0.005 (1)	0.2 (1)	0.005 (1)	0.005 (1)	0.002 (1)
MW-105	Apr-95	Dry											
MW-105	Aug-98	Dry											
MW-105	2/10/1999	Dry											
MW-105	11/15/2000	Dry											
CEI Monitoring Wells													
MW-500S	Aug-98	Dry											
MW-500S	2/10/1999	Dry											
MW-500S	11/14/2000	Dry											
MW-500D	2/15/1999	ND	ND	ND	ND	**2.9**	0.067	ND	ND	ND	ND	**1.7**	ND
MW-500D	11/14/2000	ND	ND	ND	ND	**4.8**	0.071	ND	ND	ND	ND	**2.1**	ND
MW-501S	Aug-98	Dry											
MW-501S	2/10/1999	Purged 11 gals-no recharge											
MW-501S	11/14/2000	Purged 12 gals-no recharge											
MW-501D	2/15/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0014	ND
MW-501D	11/14/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0025	ND
MW-502S	Sep-98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-502S	2/5/1999	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND
MW-502S	11/14/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-503S	Aug-98	Dry											
MW-503S	2/10/1999	Dry											
MW-503S	11/14/2000	Buried											
MW-504S	Aug-98	Dry											
MW-504S	2/10/1999	Dry											
MW-504S	11/22/2000	Dry											
MW-504D	2/17/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-504D	11/22/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-505S	Aug-98	Dry											
MW-505S	2/10/1999	Dry											
MW-505S	11/14/2000	Dry											
MW-506S	Aug-98	Dry											
MW-506S	2/10/1999	Dry											
MW-506S	11/14/2000	Dry											
MW-507S	Aug-98	Dry											
MW-507S	2/10/1999	Dry											
MW-507S	11/14/2000	Dry											

TABLE 20
Analytical Groundwater Summary

Lockformer / Lisle, Illinois

Monitoring Well Locations	Date Sampled	Chemical Parameters Detected above Class I Groundwater Objectives (mg/L)											
		Benzene	Chloroform	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Methylene Chloride	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Vinyl Chloride
		0.005 (1)	0.00002 (1)	0.005 (1)	0.007 (1)	0.07 (1)	0.1 (1)	0.005 (1)	0.005 (1)	0.2 (1)	0.005 (1)	0.005 (1)	0.002 (1)
MW-508S	Aug-98	Dry											
MW-508S	2/10/1999	Dry											
MW-508S	11/14/2000	Dry											
MW-508D	2/20/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DUP-6 / MW-508D	2/20/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-508D	11/14/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-513D	2/15/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-513D	11/13/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-514D	2/15/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND
MW-514D	11/15/2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-515D	2/17/1999	ND	ND	ND	ND	**0.32**	0.0073	ND	ND	ND	ND	**0.0079**	ND
MW-515D	11/13/2000	ND	ND	ND	ND	**0.44**	0.0088	ND	ND	ND	ND	ND	ND
MW-516D	2/15/1999	ND	ND	ND	ND	**0.099**	0.0029	ND	ND	ND	ND	**0.21**	ND
MW-516D	11/14/2000	ND	ND	ND	ND	**0.15**	0.0038	ND	ND	ND	ND	**0.19**	ND
MW-517D	2/15/1999	ND	ND	ND	ND	**0.15**	0.0063	ND	ND	ND	ND	0.0041	ND
MW-517D	11/14/2000	ND	ND	ND	ND	**0.18**	0.007	ND	ND	ND	ND	**0.0078**	ND
MW-518D (off-site)	12/7/1999	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-519D (off-site)	12/7/1999	ND	ND	ND	ND	0.018	0.0011	ND	ND	ND	ND	**0.053**	ND
MW-520	11/20/2000	ND	ND	ND	ND	0.0016	ND	ND	ND	ND	ND	0.0047	ND
MW-521	11/20/2000	ND	ND	ND	ND	0.0041	ND	ND	ND	ND	ND	**0.0051**	ND
MW-522	11/20/2000	ND	ND	ND	ND	0.0021	ND	ND	ND	ND	ND	0.0026	ND

NOTES:
(1) - Tiered Approach to Corrective Action Objectives (TACO):(35 IAC, Part 742)-Appendix B: Table E: Tier 1 Ground Water Remediation Objectives (Class I listed).
ND - Not detected
NE - Not established
Bold and double underlined indicates concentration is above Class I remediation objectives.
Only those compounds detected above corresponding objectives are listed on this table.
mg/L: milligram per liter; parts per million (ppm)

APPENDIX A

SITE REMEDIATION PROGRAM (DRM-2 FORM)

Illinois Environmental Protection Agency
Bureau of Land
Remedial Project Management Section
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

FOR ILLINOIS EPA USE:
LOG NO. _____

Site Remediation Program Form (DRM-2)
(To Be Submitted with all Plans and Reports)

I. Site Identification:

Site Name: The Lockformer Company
Street Address: 711 Ogden Avenue
City: Lisle, Illinois Illinois Inventory I. D. Number: N/A
IEMA Incident Number: N/A

II. Remediation Applicant:

Applicant's Name: Mr. Rian Scheel Company: The Lockformer Company
Street Address: 711 Ogden Avenue
City: Lisle State: IL ZIP Code: 60532 Phone: (630) 964-8000

I hereby request that the Illinois EPA review and evaluate the attached project documents in accordance with the terms and conditions of the Environmental Protection Act (415 ILCS 5), implementing regulations, and the review and evaluation services agreement.

Remediation Applicant's Signature: _____ Date: 1/3/01

III. Contact Person:

Contact's Name: Mr. Rian Scheel Company: The Lockformer Company
Street Address: 711 Ogden Avenue
City: Lisle State: IL ZIP Code: 60532 Phone: (630) 964-8000

IV. Review & Evaluation Licensed Professional Engineer ("RELPE"), if applicable:

RELPE's Name: _____ Company: _____
Street Address: _____
City: _____ State: _____ ZIP Code: _____ Phone: _____

Registration Number: _____ License Expiration Date: _____

All information submitted is available to the public except when specifically designated by the Remediation Applicant to be treated confidentially as a trade secret or secret process in accordance with the Illinois Compiled Statutes, Section 7(a) of the Environmental Protection Act, applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines. The Illinois EPA is authorized to require this information under Sections 415 ILCS 5/58 - 58.12 of the Environmental Protection Act and regulations promulgated thereunder. Disclosure of this information is required as a condition of participation in the Site Remediation Program. Failure to do so may prevent this form from being processed and could result in your plan(s) or report(s) being rejected. This form has been approved by the Forms Management Center.

V. Project Documents Being Submitted:

Document Title: Interim Focused Site Investigation Report Date of Preparation of Plan or Report: _____

Prepared by: Clayton Group Services, Inc. Prepared for: The Lockformer Co./ IEPA - SRP

Type of Document Submitted:

- ☐ Site Investigation Report - Comprehensive
- ☐ Site Investigation Report - Focused
- ☐ Remediation Objectives Report-Tier 1or 2
- ☐ Remediation Objectives Report-Tier 3
- ☐ Remedial Action Plan
- ☐ Remedial Action Completion Report
- ☐ Sampling Plan
- ☐ Health and Safety Plan
- ☐ Community Relations Plan
- ☐ Risk Assessment
- ☐ Contaminant Fate & Transport Modeling
- ☐ Environmental Remediation Tax Credit - Budget Plan Review
- ☐ Other: _____

Document Title: _____ Date of Preparation of Plan or Report: _____

Prepared by: _____ Prepared for: _____

Type of Document Submitted:

- ☐ Site Investigation Report - Comprehensive
- ☐ Site Investigation Report - Focused
- ☐ Remediation Objectives Report-Tier 1or 2
- ☐ Remediation Objectives Report-Tier 3
- ☐ Remedial Action Plan
- ☐ Remedial Action Completion Report
- ☐ Sampling Plan
- ☐ Health and Safety Plan
- ☐ Community Relations Plan
- ☐ Risk Assessment
- ☐ Contaminant Fate & Transport Modeling
- ☐ Environmental Remediation Tax Credit - Budget Plan Review
- ☐ Other: _____

Document Title: _____ Date of Preparation of Plan or Report: _____

Prepared by: _____ Prepared for: _____

Type of Document Submitted:

- ☐ Site Investigation Report - Comprehensive
- ☐ Site Investigation Report - Focused
- ☐ Remediation Objectives Report-Tier 1or 2
- ☐ Remediation Objectives Report-Tier 3
- ☐ Remedial Action Plan
- ☐ Remedial Action Completion Report
- ☐ Sampling Plan
- ☐ Health and Safety Plan
- ☐ Community Relations Plan
- ☐ Risk Assessment
- ☐ Contaminant Fate & Transport Modeling
- ☐ Environmental Remediation Tax Credit - Budget Plan Review
- ☐ Other: _____

VI. Professional Engineer's Seal or Stamp:

I attest that all site investigations or remedial activities that are the subject of this plan(s) or report(s) were performed under my direction, and this document and all attachments were prepared under my direction or reviewed by me, and to the best of my knowledge and belief, the work described in the plan and report has been designed or completed in accordance with the Illinois Environmental Protection Act (415 ILCS 5), 35 Ill. Adm. Code 740, and generally accepted engineering practices, and the information presented is accurate and complete.

Engineer Name: John Rohr

Company: Clayton Group Serv Phone: (630) 795-3200

Registration Number: 062-036421

Professional Engineer's Seal or Stamp: 062-036421 REGISTERED PROFESSIONAL ENGINEER STATE OF ILLINOIS

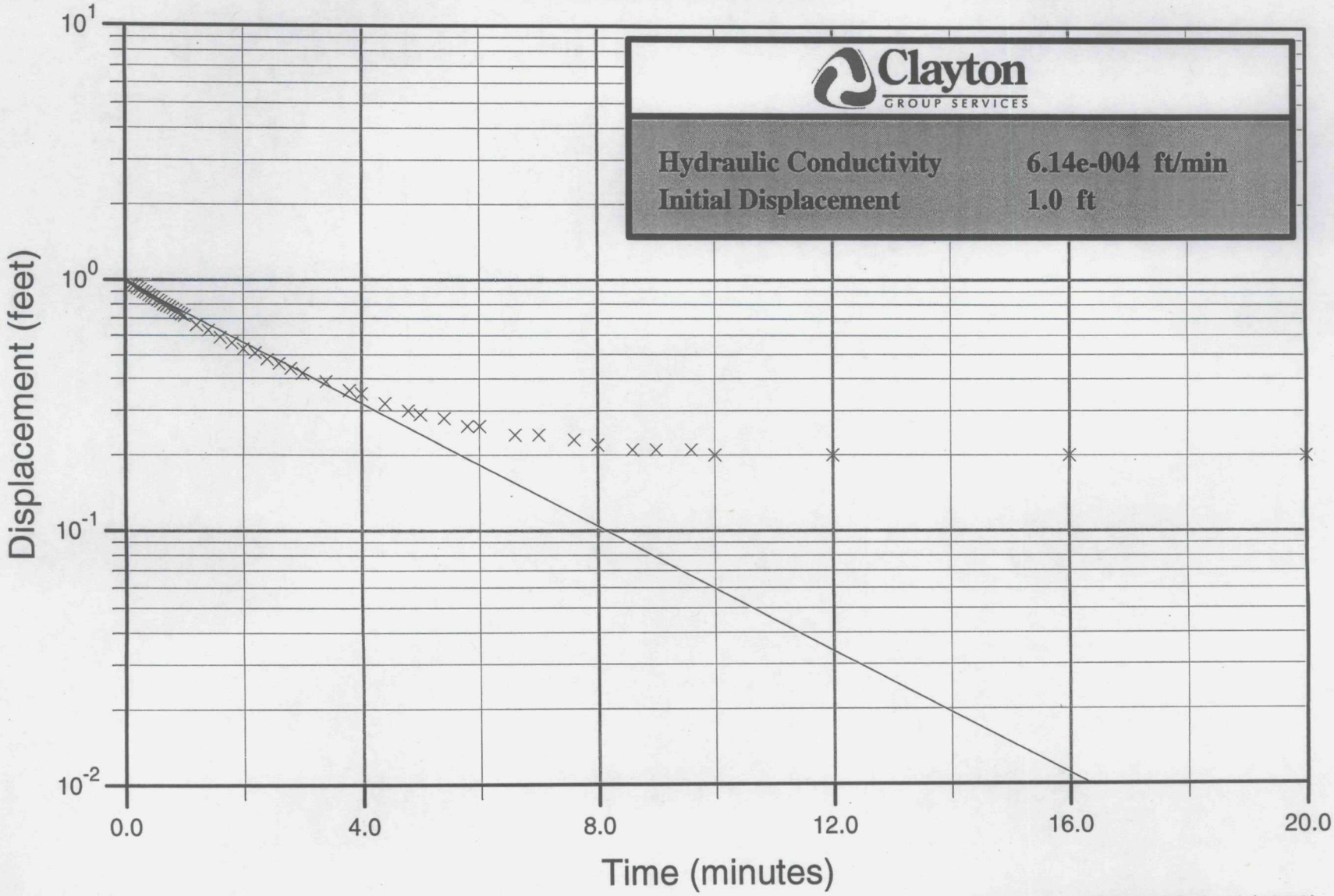
Signature: John Rohr License Expiration Date: 11/30/2001

SB:jab\drm-2.doc

APPENDIX B

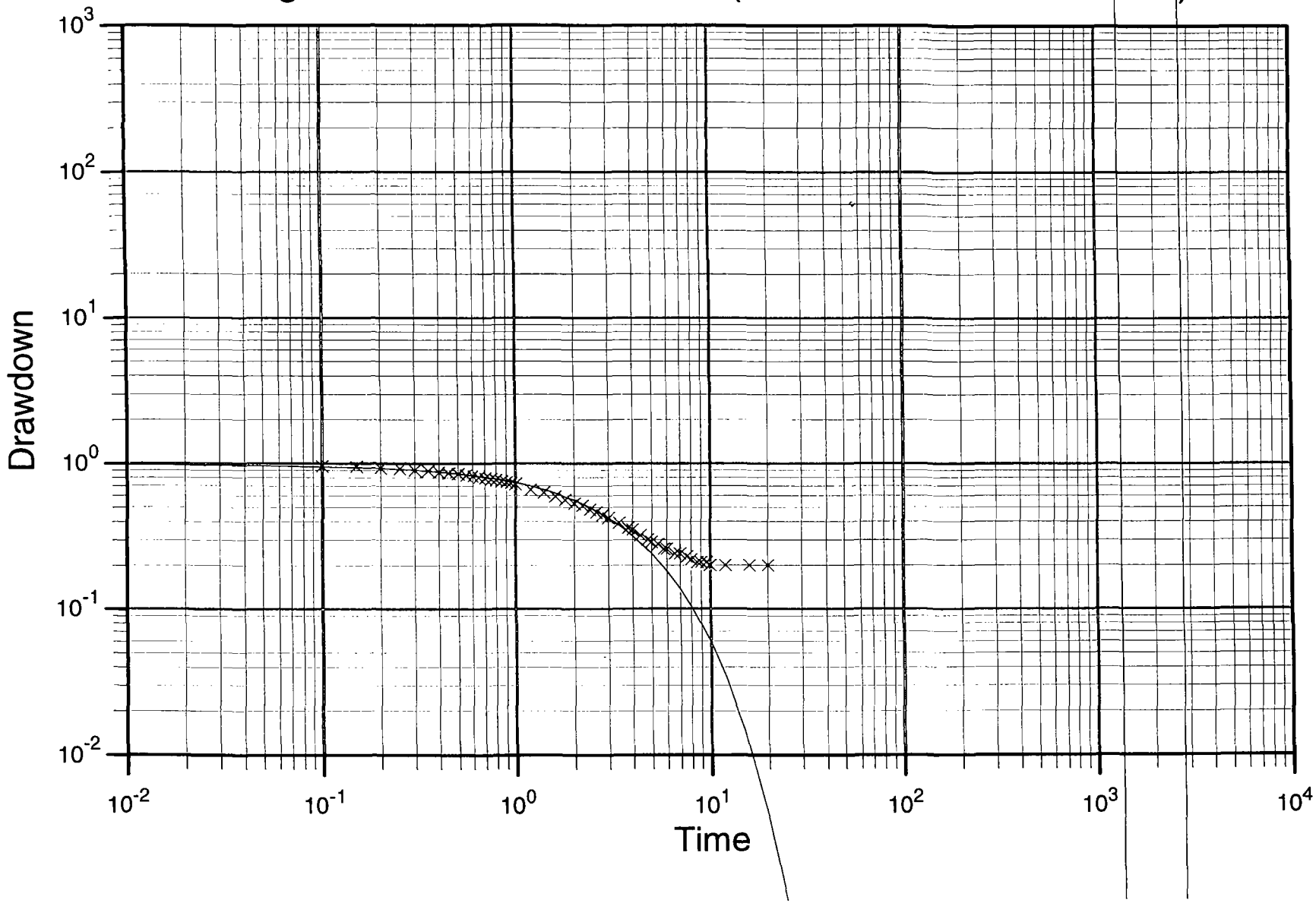
SLUG TEST INFORMATION AND RESULTS

Slugtest Results: MW-500D

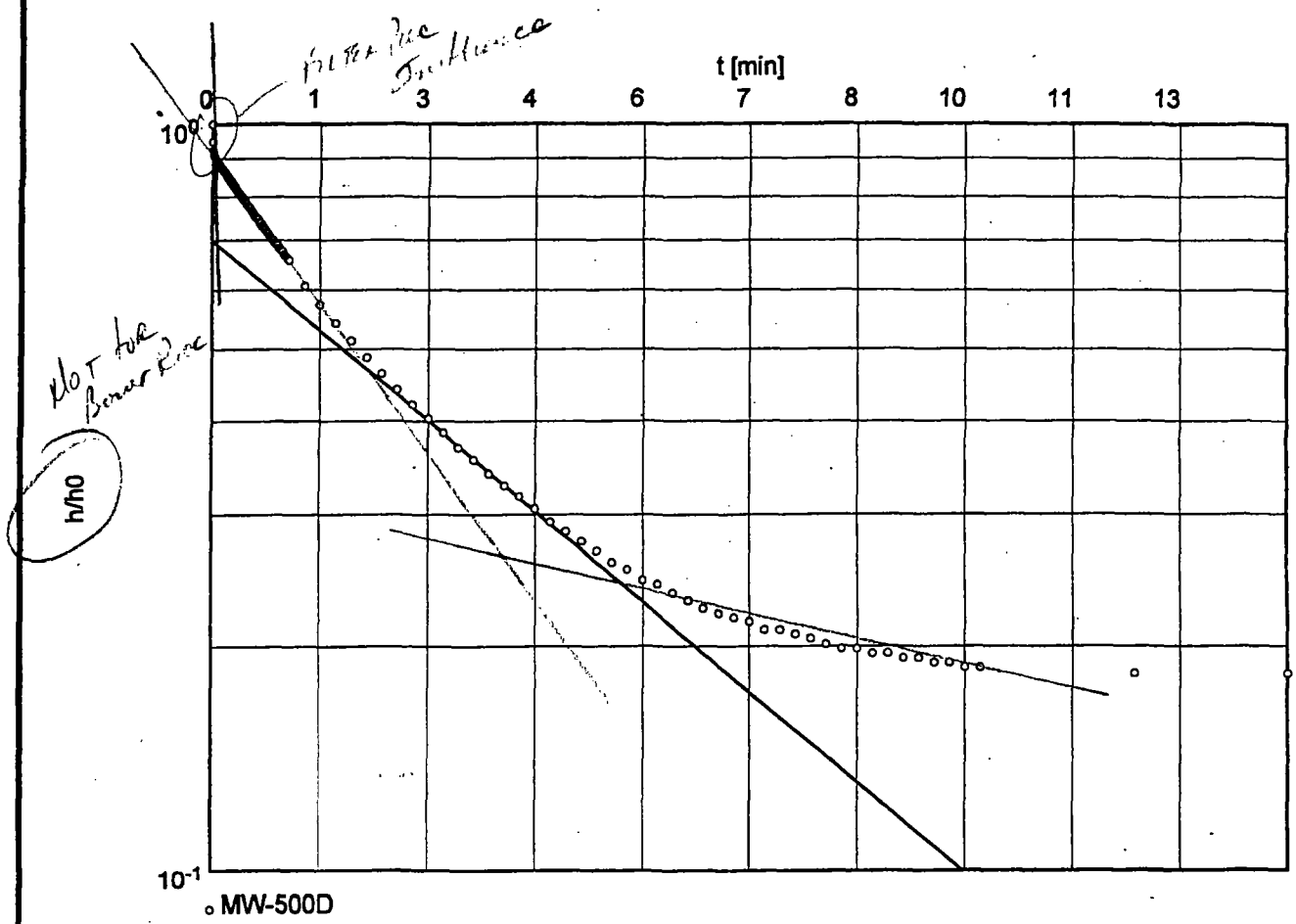


Bouwer and Rice Method (1976)

Slugtest Results: MW-500D (Plot vs. Predicted Curve)



Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail ~~test analysis~~ BOUWER-RICE's method Hvorslev ?	Date: 18.02.1999 Page 1 Project: Lockformer Evaluated by: SA
Slug Test No. 02		Test conducted on: 2/17/99
MW-500D		



Hydraulic conductivity [ft/min]: 9.12×10^{-4} 4.63×10^{-4} cm/sec

4.64×10^{-6} m/s

Curve - OK

Analysis - looks like Hvorslev, not BR.

Value more to lithology of second zone. Little low. But OK.

Max displacement 1.09 (Volume displacement of slug not known).

82% recovery.

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SHEET NO. 1 OF 2
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DATE
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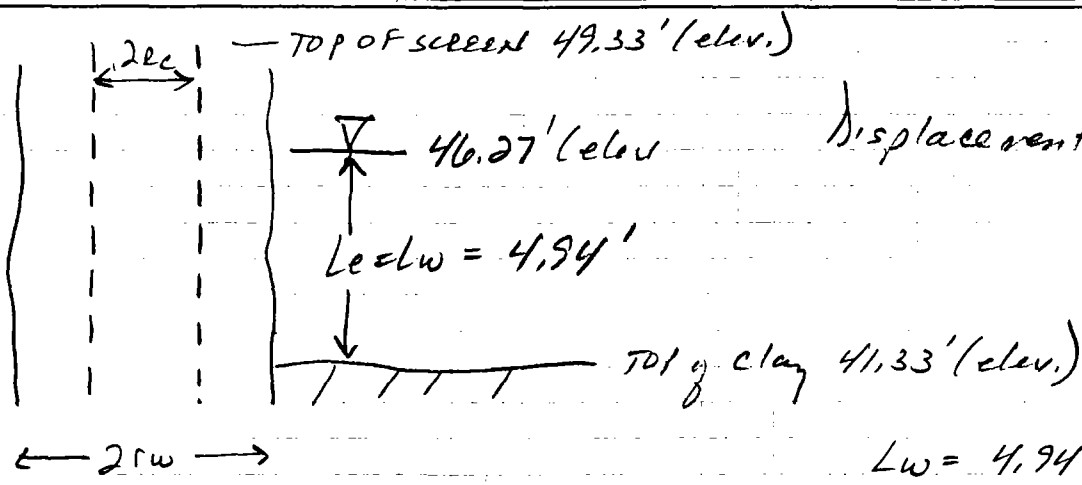
MW-500D
Bower and Rice Method (1976)



Displacement = 1.09'

$L_w = 4.94'$

$r_c = 0.083'$

$L_e = 4.94'$

$r_w = 0.33'$

$\ln(R_e/r_w) = 1.96$

$$\ln(R_e/r_w) = \left[\frac{1.1}{\ln(4.94/.33)} + \frac{C}{4.94/.33}\right]^{-1}$$

$$= \left[\frac{1.1}{2.71} + \frac{1.5}{15}\right]^{-1}$$

$$= \left[0.41 + 0.10\right]^{-1} = \left[0.51\right]^{-1} = 1.96$$

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DATE
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MW-500D

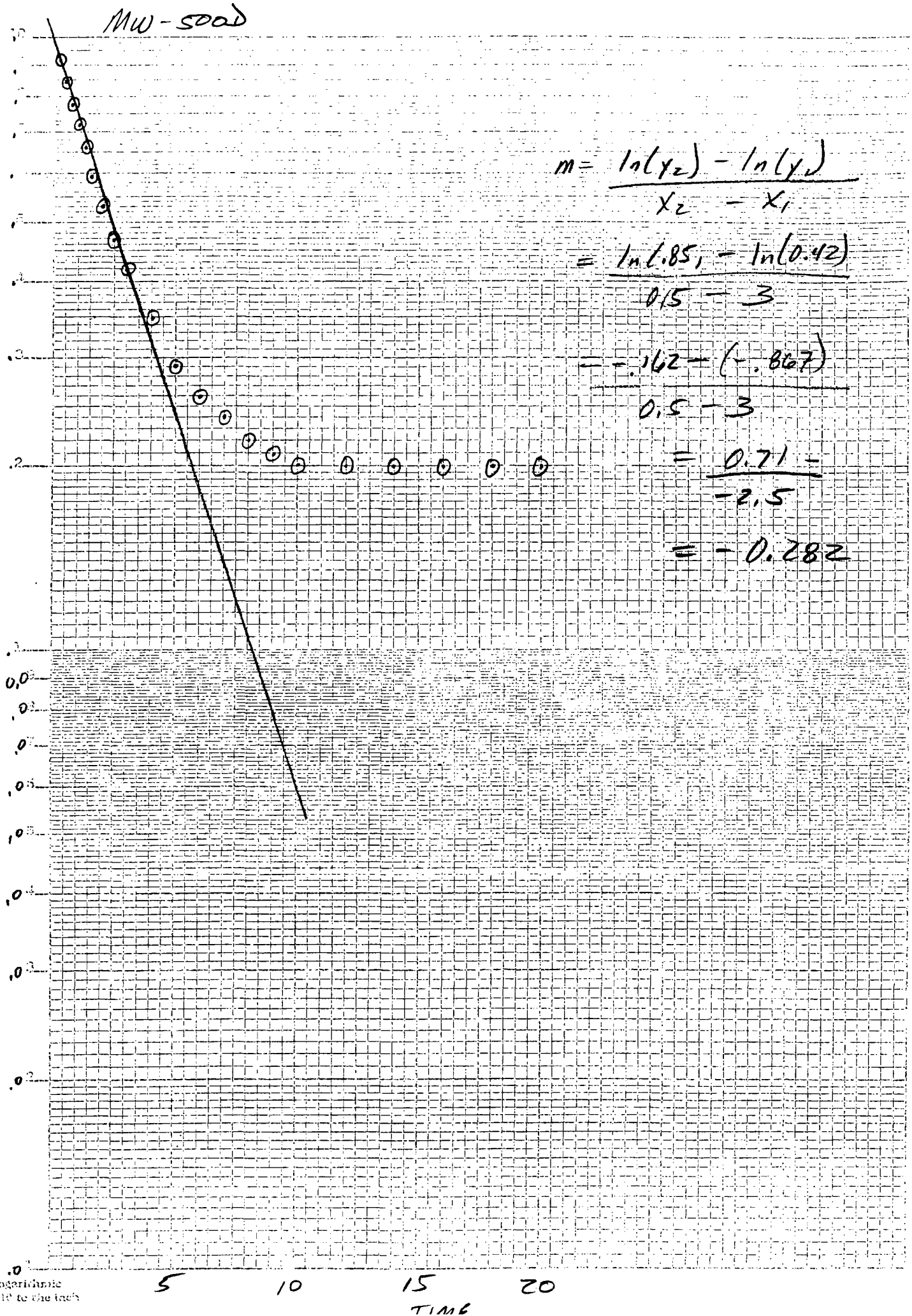
$$K = \frac{r_c^2 \ln(R_e/r_w)}{2 L_e}\left(\frac{1}{f} \ln \frac{Y_0}{Y_f}\right)$$

$$= \frac{(0.083\,FT)^2 (1.96)}{2(4.94\,FT)} A$$ where A = slope of line.

$$= \frac{0.007\,FT^2 (1.96)(0.282/min)}{9.88\,FT}$$

$$= \frac{0.00387\,FT/min}{9.88}$$

$$= 3.92 \times 10^{-4}\,FT/min$$



$$m = \frac{\ln(y_2) - \ln(y_1)}{x_2 - x_1}$$

$$= \frac{\ln(.85) - \ln(0.42)}{0.5 - 3}$$

$$= \frac{-.162 - (-.867)}{0.5 - 3}$$

$$= \frac{0.71}{-2.5}$$

$$= -0.282$$

Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method	Date: 18.02.1999 Page 2 Project: Lockformer Evaluated by: SA

Slug Test No. 02	Test conducted on: 2/17/99
MW-500D	MW-500D

Static water level: 0.00 ft below datum

	Pumping test duration [min]	Water level [ft]	Drawdown [ft]
1	0.00	1.09	1.09
2	0.00	1.04	1.04
3	0.01	1.01	1.01
4	0.01	1.01	1.01
5	0.01	1.01	1.01
6	0.02	1.00	1.00
7	0.02	1.00	1.00
8	0.02	0.99	0.99
9	0.03	0.99	0.99
10	0.03	0.99	0.99
11	0.03	0.99	0.99
12	0.04	0.98	0.98
13	0.04	0.98	0.98
14	0.04	0.98	0.98
15	0.05	0.98	0.98
16	0.05	0.98	0.98
17	0.05	0.98	0.98
18	0.06	0.98	0.98
19	0.06	0.97	0.97
20	0.06	0.97	0.97
21	0.07	0.97	0.97
22	0.07	0.97	0.97
23	0.07	0.97	0.97
24	0.08	0.97	0.97
25	0.08	0.97	0.97
26	0.08	0.97	0.97
27	0.09	0.97	0.97
28	0.09	0.97	0.97
29	0.09	0.97	0.97
30	0.10	0.97	0.97
31	0.10	0.96	0.96
32	0.10	0.96	0.96
33	0.11	0.96	0.96
34	0.11	0.96	0.96
35	0.11	0.96	0.96
36	0.12	0.95	0.95
37	0.12	0.95	0.95
38	0.12	0.95	0.95
39	0.13	0.95	0.95
40	0.13	0.95	0.95
41	0.13	0.95	0.95
42	0.14	0.95	0.95
43	0.14	0.95	0.95
44	0.14	0.95	0.95
45	0.15	0.95	0.95
46	0.15	0.95	0.95
47	0.15	0.95	0.95
48	0.16	0.95	0.95
49	0.16	0.94	0.94
50	0.16	0.94	0.94

Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method	Date: 18.02.1999 Page 3 Project: Lockformer Evaluated by: SA

Slug Test No. 02	Test conducted on: 2/17/99
MW-500D	MW-500D

Static water level: 0.00 ft below datum

	Pumping test duration [min]	Water level [ft]	Drawdown [ft]
51	0.17	0.94	0.94
52	0.17	0.94	0.94
53	0.17	0.94	0.94
54	0.18	0.94	0.94
55	0.18	0.94	0.94
56	0.18	0.94	0.94
57	0.19	0.94	0.94
58	0.19	0.93	0.93
59	0.19	0.93	0.93
60	0.20	0.93	0.93
61	0.20	0.93	0.93
62	0.20	0.93	0.93
63	0.21	0.93	0.93
64	0.21	0.93	0.93
65	0.21	0.93	0.93
66	0.22	0.93	0.93
67	0.22	0.92	0.92
68	0.22	0.92	0.92
69	0.23	0.92	0.92
70	0.23	0.92	0.92
71	0.23	0.92	0.92
72	0.24	0.92	0.92
73	0.24	0.92	0.92
74	0.24	0.92	0.92
75	0.25	0.92	0.92
76	0.25	0.92	0.92
77	0.25	0.92	0.92
78	0.26	0.91	0.91
79	0.26	0.91	0.91
80	0.26	0.91	0.91
81	0.27	0.91	0.91
82	0.27	0.91	0.91
83	0.27	0.91	0.91
84	0.28	0.91	0.91
85	0.28	0.91	0.91
86	0.28	0.91	0.91
87	0.29	0.91	0.91
88	0.29	0.90	0.90
89	0.29	0.90	0.90
90	0.30	0.90	0.90
91	0.30	0.90	0.90
92	0.30	0.90	0.90
93	0.31	0.90	0.90
94	0.31	0.90	0.90
95	0.31	0.90	0.90
96	0.32	0.90	0.90
97	0.32	0.90	0.90
98	0.32	0.90	0.90
99	0.33	0.90	0.90
100	0.33	0.89	0.89

Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method	Date: 18.02.1999 Page 4 Project: Lockformer Evaluated by: SA

Slug Test No. 02	Test conducted on: 2/17/99
MW-500D	MW-500D

Static water level: 0.00 ft below datum

	Pumping test duration [min]	Water level [ft]	Drawdown [ft]
101	0.33	0.89	0.89
102	0.35	0.89	0.89
103	0.37	0.88	0.88
104	0.38	0.88	0.88
105	0.40	0.87	0.87
106	0.42	0.87	0.87
107	0.43	0.86	0.86
108	0.45	0.86	0.86
109	0.47	0.85	0.85
110	0.48	0.85	0.85
111	0.50	0.85	0.85
112	0.52	0.84	0.84
113	0.53	0.84	0.84
114	0.55	0.83	0.83
115	0.57	0.82	0.82
116	0.58	0.82	0.82
117	0.60	0.82	0.82
118	0.62	0.81	0.81
119	0.63	0.81	0.81
120	0.65	0.80	0.80
121	0.67	0.80	0.80
122	0.68	0.79	0.79
123	0.70	0.79	0.79
124	0.72	0.78	0.78
125	0.73	0.78	0.78
126	0.75	0.78	0.78
127	0.77	0.77	0.77
128	0.78	0.77	0.77
129	0.80	0.77	0.77
130	0.82	0.76	0.76
131	0.83	0.76	0.76
132	0.85	0.75	0.75
133	0.87	0.75	0.75
134	0.88	0.74	0.74
135	0.90	0.74	0.74
136	0.92	0.74	0.74
137	0.93	0.73	0.73
138	0.95	0.73	0.73
139	0.97	0.73	0.73
140	0.98	0.72	0.72
141	1.00	0.72	0.72
142	1.20	0.66	0.66
143	1.40	0.63	0.63
144	1.60	0.59	0.59
145	1.80	0.56	0.56
146	2.00	0.53	0.53
147	2.20	0.51	0.51
148	2.40	0.48	0.48
149	2.60	0.46	0.46
150	2.80	0.44	0.44

Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method	Date: 18.02.1999 Page 5 Project: Lockformer Evaluated by: SA

Slug Test No. 02	Test conducted on: 2/17/99
MW-500	MW-500D

Static water level: 0.00 ft below datum

	Pumping test duration [min]	Water level [ft]	Drawdown [ft]
151	3.00	0.42	0.42
152	3.20	0.40	0.40
153	3.40	0.39	0.39
154	3.60	0.37	0.37
155	3.80	0.36	0.36
156	4.00	0.35	0.35
157	4.20	0.33	0.33
158	4.40	0.32	0.32
159	4.60	0.31	0.31
160	4.80	0.30	0.30
161	5.00	0.29	0.29
162	5.20	0.28	0.28
163	5.40	0.28	0.28
164	5.60	0.27	0.27
165	5.80	0.26	0.26
166	6.00	0.26	0.26
167	6.20	0.25	0.25
168	6.40	0.25	0.25
169	6.60	0.24	0.24
170	6.80	0.24	0.24
171	7.00	0.24	0.24
172	7.20	0.23	0.23
173	7.40	0.23	0.23
174	7.60	0.23	0.23
175	7.80	0.22	0.22
176	8.00	0.22	0.22
177	8.20	0.22	0.22
178	8.40	0.22	0.22
179	8.60	0.21	0.21
180	8.80	0.21	0.21
181	9.00	0.21	0.21
182	9.20	0.21	0.21
183	9.40	0.21	0.21
184	9.60	0.21	0.21
185	9.80	0.20	0.20
186	10.00	0.20	0.20
187	12.00	0.20	0.20
188	14.00	0.20	0.20
189	16.00	0.20	0.20
190	18.00	0.20	0.20
191	20.00	0.20	0.20
192	22.00	0.20	0.20
193	24.00	0.20	0.20
194	26.00	0.20	0.20
195	28.00	0.20	0.20
196	30.00	0.20	0.20
197	32.00	0.20	0.20
198	34.00	0.20	0.20
199	36.00	0.20	0.20

CARLSON ENVIRONMENTAL, INC.
65 East Wacker Place
Chicago, Illinois 60601
312/346-2140

Log of Boring SB-500D

Lockformer
711 Ogden Ave.
Lisle, IL

PN: 9786C

Date & Time Started	: 08/26/98, 0850	Surface Elevation	: 91.33'
Date & Time Finished	: 08/26/98, 1010	Driller	: Mid-America Drilling
Logged By	: LMP	Drill Method	: Hollow Stem 8" OD.
Depth to water	: NA	Sample Method	: 2'- 2" SPLSPN

Depth in feet	Sample Number	Depth Interval	Time	Blow Counts	Recov. (inches)	PID fid/bag (units)	Graphic Log	USCS Log	Materials Description	Remarks
0									Blind drill to 25' Refer to SB-500s	
26	SB-500D(A)	25-27	0905	100/5"	4"	10.5		SW	Very low recovery, sand/gravel/limestone fragments Dark brown topsoil, ORGANIC CLAY, not characteristic of depth	
36	SB-500D(B)	35-37	0925	26,26,20,15	10"	26.7		SW	Light brown/red sand/gravel & limestone fragments, dry, dense	SB-500d(B) submitted for VOC & TOC analysis
42	SB-500D(C)	42-44	0942	14,16,18,26	2"	-			No recovery, No moisture, No PID	
46									▽	
48	SB-500D(D)	48-50	0955	6,10,18,25	2"	-		SW	Low recovery, No moisture, No PID Gray fine-medium sand, saturated	
50	SB-500D(E)	50-52	1000	2,9,11,14	15"	8.4		CL	Gray silty CLAY	
52									End of boring at 52'	
54										

10-12-1999 m:\mtech\borings\97\9786clsb-500d.bor

CARLSON ENVIRONMENTAL, INC.
65 East Wacker Place
Chicago, Illinois 60601
312/346-2140

Log of Boring MW-500D/SB-500D

Lockformer
711 Ogden Ave.
Lisle, IL

PN: 9786C

Installation Date	: 2/8/99	Surface Elevation	: 91.33'
Drilling Method	: Hollow Stem 8" Od.	Casing Elevation	: 93.67'
Drilling Contractor	: Mid-America Drilling	Casing Stickup	: 2.34'
Sampling Method	: 2'-2" SPTSPN	Surveyed	: 2/20/99

Well: MW-500D/SB-500D
Elevation: 93.67'

Well Construction Information

WELL CONSTRUCTION
Date Compl. : 2/8/99
Hole Diameter : 8"
Drilling Fluid : none
Company Rep. : CEI

WELL CASING
Material : PVC
Diameter : 2 in.

WELL SCREEN
Material : Stainless Steel
Diameter : 2 in.
Opening : .010 slot

WELL MATERIALS
Sand Pack : #5 quartz
Annulus Seal : Bentonite Pellets
Grout : Cement

COUNTY/STATE : DuPage, Il

Development Technique(s) and Dates: Purge Pump

Static Depth to Water Date: 2/99, 3/99

Static Depth to Water(feet): 47.40, 47.94

Ground Water Elevation: 46.27', 45.73'

Water Removed During Development(gals): 52

Well Purpose: Monitoring

Materials Description

Blind drill to 25'

very low recovery
sand/gravel/limestone fragments
sample was stiff from top
Dark brown Topsoil, ORGANIC CLAY, not characteristic of depth

Light brown/red sand/gravel and limestone fragments, dry, dense

No recovery, No moisture, No PID

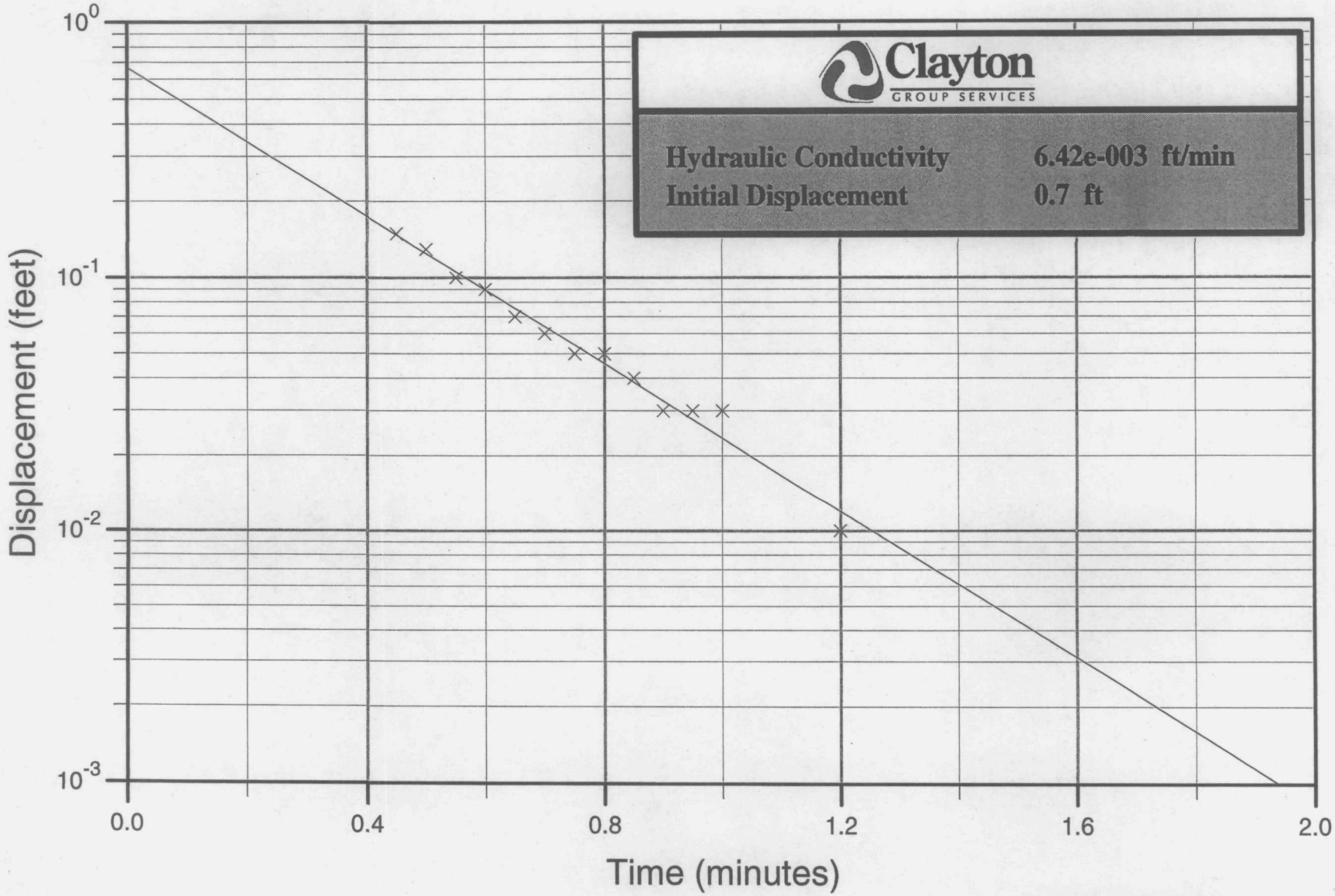
Low recovery, No moisture, No PID
Gray fine-medium sand, saturated

Gray silty CLAY
Set well at 52' (1215)

49.3
46.2
41.3

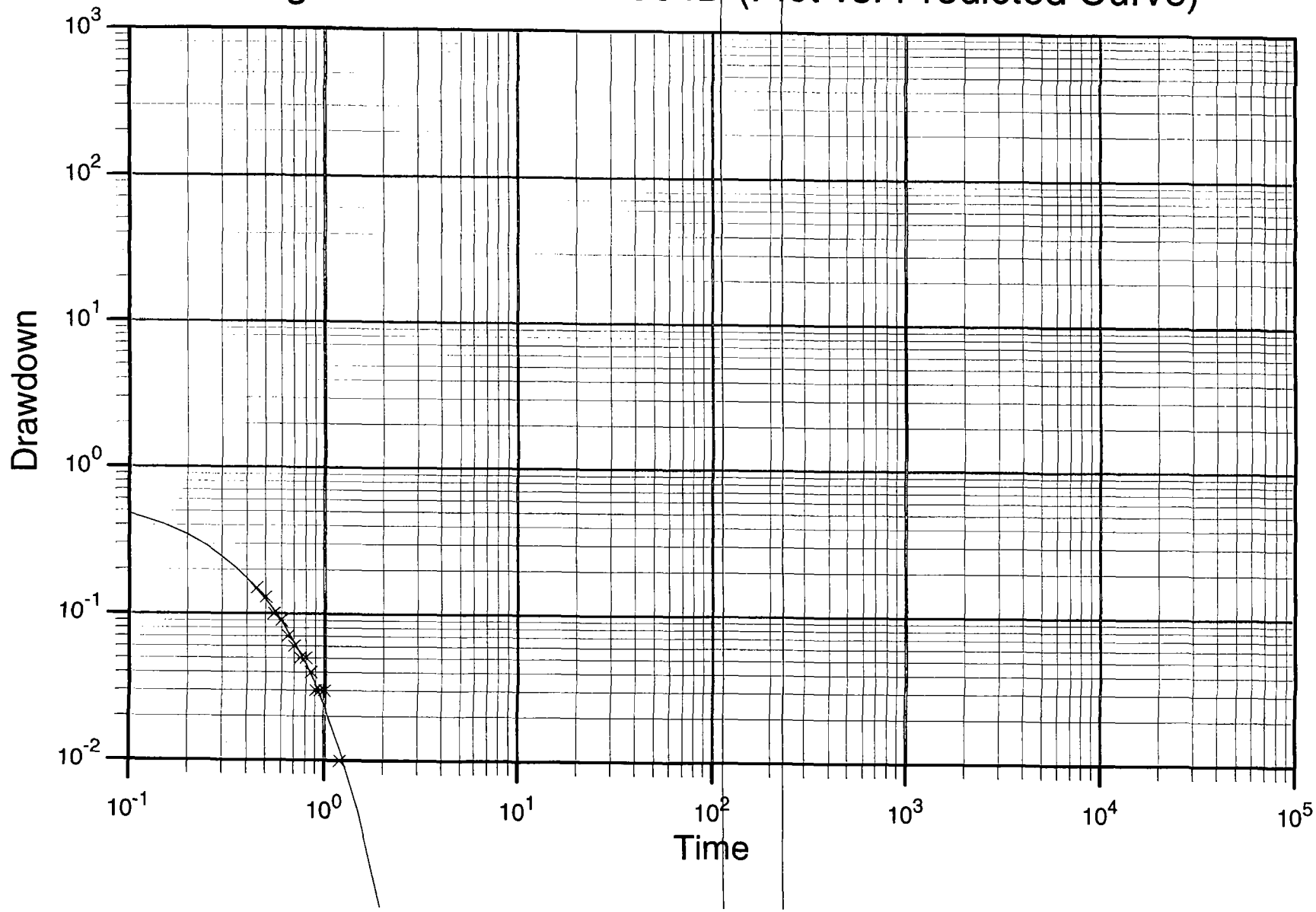
10-12-1999 m:\mtech\borings\97\9786c\mw-500d.bor

Slugtest Results: MW-504D

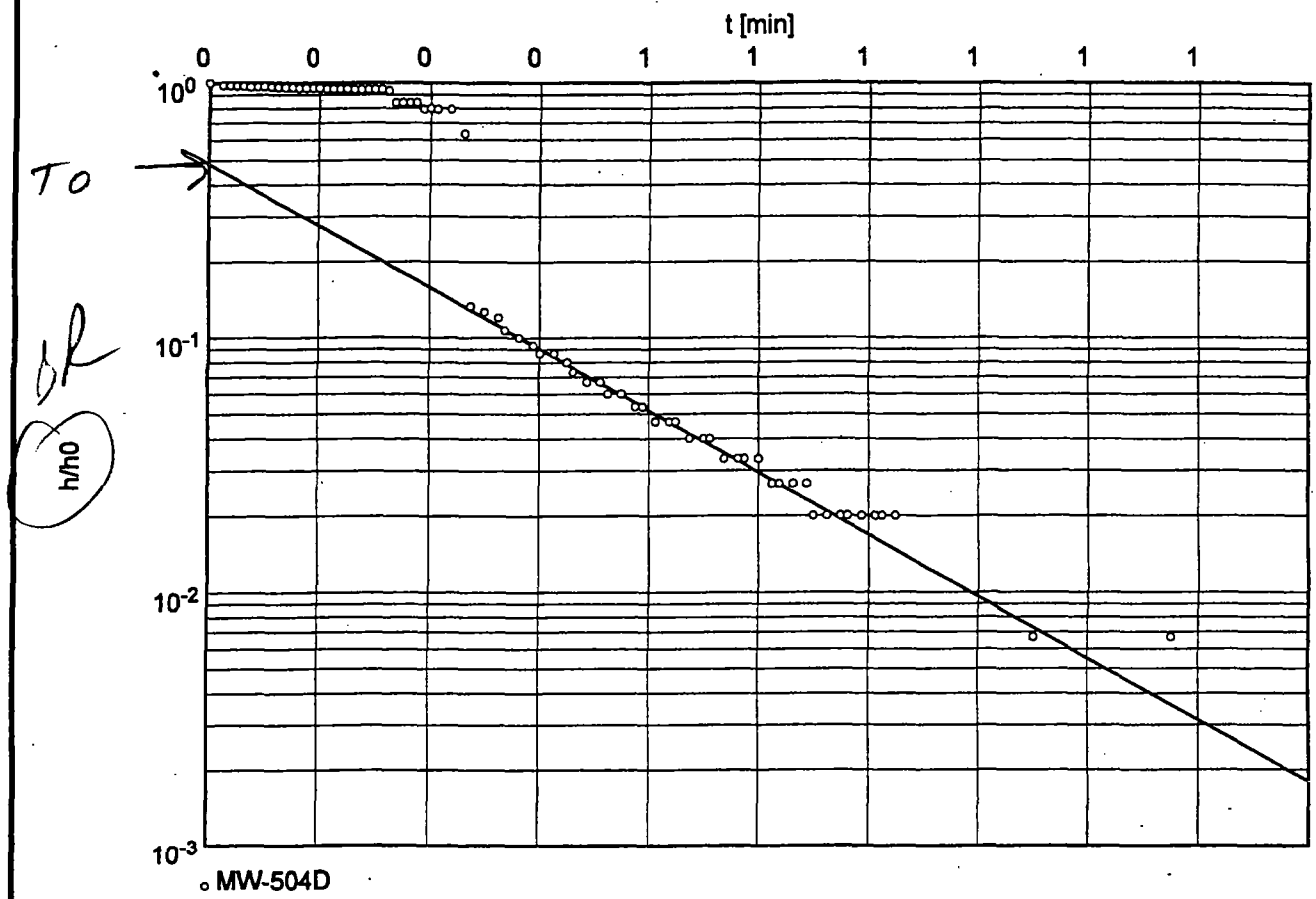


Bouwer and Rice Method (1976)

Slugtest Results: MW-504D (Plot vs. Predicted Curve)



Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	~~slug/bail test analysis~~ BOUWER-RICE's method Graph Hoisler.	Date: 18.02.1999 Page 1 Project: Lockformer Evaluated by: SA
Slug Test No. 06		Test conducted on: 2/17/99
MW-504D		



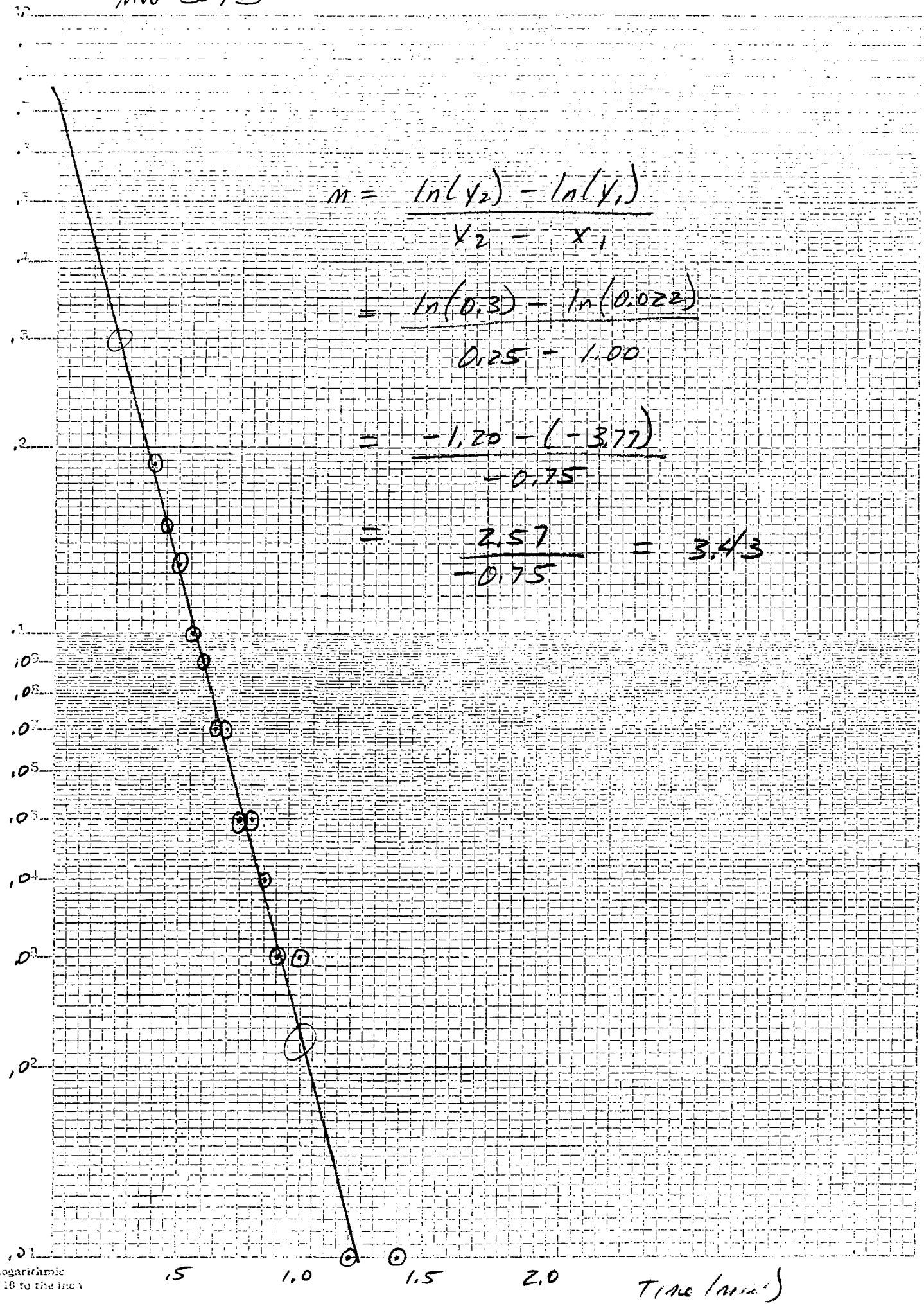
Hydraulic conductivity [ft/min]: 2.56×10^{-2} 1.3×10^{-2} cm/s

1.3×10^{-4} m/s

Curve Match — OK. Relatively fast recovery.
— Value ok for M. to C. sand.

100% recovery in 1.2 minutes.

MW-504D



$$m = \frac{\ln(y_2) - \ln(y_1)}{x_2 - x_1}$$

$$= \frac{\ln(0.3) - \ln(0.022)}{0.25 - 1.00}$$

$$= \frac{-1.20 - (-3.77)}{-0.75}$$

$$= \frac{2.57}{-0.75} = 3.43$$

Semi-Logarithmic
2 Cycles x 10 to the inch

Clayton GROUP SERVICES
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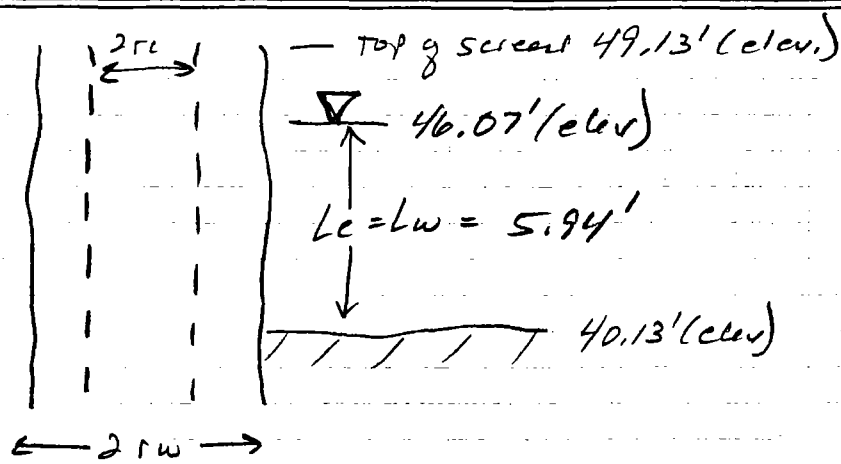
(630) 795-3200 Fax (630) 795-1130

SHEET NO. 1 OF 2
PROJECT
DATE
BY CKD

MW-5041
Bower and Rice (1976)



$L_w = 5.94'$

$r_c = 0.083'$

$L_w = 5.94'$

$r_w = 0.33'$

$\ln\left(\frac{R_e}{r_w}\right) = 2.08$

$$\ln(R_e/r_w) = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w}\right]^{-1}$$

$$= \left[\frac{1.1}{\ln(5.94/.33)} + \frac{C}{5.94/.33}\right]^{-1}$$

$$= \left[\frac{1.1}{2.89} + \frac{1.75}{18}\right]^{-1}$$

$C = 1.75$ @ $L_e/r_w = 18$

$$= \left[0.38 + 0.10\right]^{-1}$$

$$= \left[0.48\right]^{-1}$$

$$= 2.08$$

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3140 Finley Road, Downers Grove, IL 60515
(630) 795-3200 Fax (630) 795-1130

PROJECT
DATE
BY CKD

MW-504D

$$K = \frac{r_c^2 \ln(R_e/r_w)}{2L_e}\left(\frac{1}{t}\ln\frac{Y_0}{Y_t}\right)$$

$$= \frac{(0.083\ FT)^2\ (2.08)}{2(5.94\ FT)}\ A \qquad \text{where } A = m = \left(\frac{1}{t}\ln\frac{Y_0}{Y_t}\right)$$

$$= \frac{0.007\ FT^2\ (2.08)\ (3.43)}{11.88\ FT}$$

$$= \frac{0.05\ FT/min}{11.88}$$

$$= 4.20 \times 10^{-3}\ FT/min$$

CARLSON ENVIRONMENTAL, INC.
65 East Wacker Place
Chicago, Illinois 60601
312/346-2140

Log of Boring SB-504D

Lockformer
711 Ogden Ave.
Lisle, IL

PN: 9786C

Date & Time Started	: 2/4/99 (0800)	Surface Elevation	: 99.13'
Date & Time Finished	: 2/4/99 (1105)	Driller	: Mid-America
Logged By	: LMP	Drill Method	: Diedrich D-120
Depth to water	: NA	Sample Method	: 2'-2" Split Spoon

Depth in feet	Sample Number	Depth Interval	Time	Blow Counts	Recov. (inches)	PID (units)	Graphic Log	USCS Log	Materials Description	Remarks
0–24									Blind drill to 25' Refer to LOG OF SB-504S	
26	SB-504D(A)	25-27	0844	25,36,25,22	12"	8.2			Light brown to red sand/gravel with limestone, dry, dense	
28–34									Continue blind drill to 35'	
36	SB-504D(B)	35-37	0907	32,45,29,26	15"	4.4			Light brown to red sand/gravel with limestone, dry, dense	
38–40								SW		
42–48									Continue blind drill to 48'	
48	SB-504D(C)	48-50	0944	45,89,39,56	19"	5.3				
50–54									Continue blind drill to 55'	
56	SB-504D(D)	55-57	1050	18,37,21,34	13"	6.2		SP	Gray medium coarse sand, little clay & silt, saturated, dense	
58	SB-504D(E)	58-60	1105	20,52,47/5"	22"	5.1		ML	Gray silt, trace gravel/sand, very moist to saturated	SB-504D(E) submitted for analysis
60–62									End of Boring at 60'	

10-12-1999 m:\mtech\borings\97\9786c\sb-504d.bor

CARLSON ENVIRONMENTAL, INC.
65 East Wacker Place
Chicago, Illinois 60601
312/346-2140

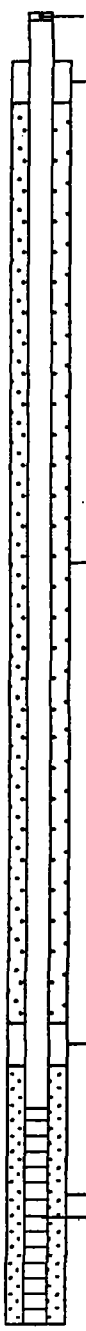
Log of Boring MW-504D/SB-504D

Lockformer
711 Ogden Ave.
Lisle, IL

PN: 9786C

Installation Date	: 2/4/99	Surface Elevation	: 99.13'
Drilling Method	: Diedrich D-120/HSA	Casing Elevation	: 101.47'
Drilling Contractor	: Mid-America Drilling	Casing Stickup	: 2.34'
Sampling Method	: 2'-2" Split Spoon	Surveyed	: 2/20/99

Well: MW-504D/SB-504D
Elevation: 101.47'



Well Construction Information

WELL CONSTRUCTION

Date Compl.	: 2/4/99
Hole Diameter	: 8"
Drilling Fluid	: none
Company Rep.	: CEI

WELL CASING

Material	: PVC
Diameter	: 2 in.

WELL SCREEN

Material	: Stainless Steel
Diameter	: 2 in.
Opening	: .010 slot

WELL MATERIALS

Sand Pack	: #5 quartz
Annulus Seal	: Bentonite Pellets
Grout	: Cement

COUNTY/STATE : DuPage, Il

Development Technique(s) and Dates: Envirotech Submersible purge pump , 2/17/99

Static Depth to Water Date: 2/15/99, 3/99

Static Depth to Water(feet): 55.4, 54.12

Ground Water Elevation: 46.07', 47.35'

Water Removed During Development(gals): 55 to dryness

Well Purpose: Monitoring

Materials Description

Blind drill to 25'
Refer to LOG OF SB-504S

Light brown to red sand/gravel/limestone, dry, dense

Continue blind drill to 35'

Light brown to red sand/gravel with limestone, dry, dense

Continue blind drill to 48'

Continue blind drill to 55'

Gray medium coarse sand, little clay & silt, saturated, dense

Gray silt, trace gravel & sand, wet

End of Boring at 60'

Depth in Feet: 0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62

49.13
46.07
40.13

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Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method	Date: 18.02.1999 Page 2 Project: Lockformer Evaluated by: SA

Slug Test No. 06	Test conducted on: 2/17/99
MW-504D	MW-504D

Static water level: 0.00 ft below datum

	Pumping test duration [min]	Water level [ft]	Drawdown [ft]
1	0.00	1.50	1.50
2	0.02	1.47	1.47
3	0.03	1.47	1.47
4	0.04	1.46	1.46
5	0.05	1.46	1.46
6	0.06	1.45	1.45
7	0.07	1.45	1.45
8	0.08	1.45	1.45
9	0.09	1.45	1.45
10	0.10	1.44	1.44
11	0.11	1.44	1.44
12	0.12	1.44	1.44
13	0.13	1.43	1.43
14	0.14	1.43	1.43
15	0.15	1.43	1.43
16	0.16	1.43	1.43
17	0.17	1.42	1.42
18	0.18	1.42	1.42
19	0.19	1.42	1.42
20	0.20	1.42	1.42
21	0.21	1.41	1.41
22	0.22	1.41	1.41
23	0.23	1.41	1.41
24	0.24	1.41	1.41
25	0.25	1.41	1.41
26	0.26	1.40	1.40
27	0.27	1.26	1.26
28	0.28	1.26	1.26
29	0.29	1.26	1.26
30	0.30	1.26	1.26
31	0.31	1.19	1.19
32	0.32	1.20	1.20
33	0.33	1.19	1.19
34	0.35	1.19	1.19
35	0.37	0.95	0.95
36	0.38	0.20	0.20
37	0.40	0.19	0.19
38	0.42	0.18	0.18
39	0.43	0.16	0.16
40	0.45	0.15	0.15
41	0.47	0.14	0.14
42	0.48	0.13	0.13
43	0.50	0.13	0.13
44	0.52	0.12	0.12
45	0.53	0.11	0.11
46	0.55	0.10	0.10
47	0.57	0.10	0.10
48	0.58	0.09	0.09
49	0.60	0.09	0.09
50	0.62	0.08	0.08

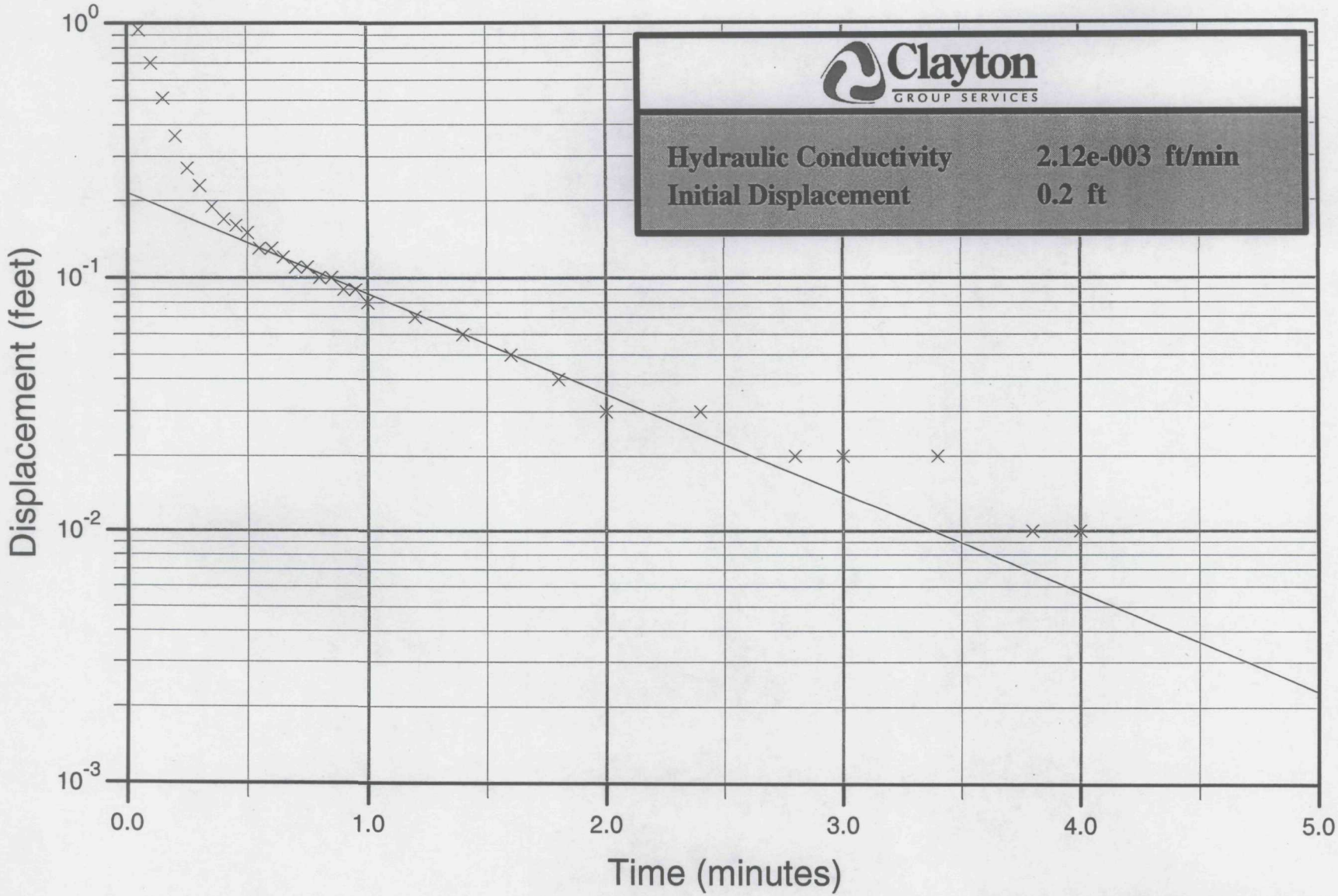
Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method	Date: 18.02.1999 Page 3 Project: Lockformer Evaluated by: SA

Slug Test No. 06	Test conducted on: 2/17/99
MW-504D	MW-504D

Static water level: 0.00 ft below datum

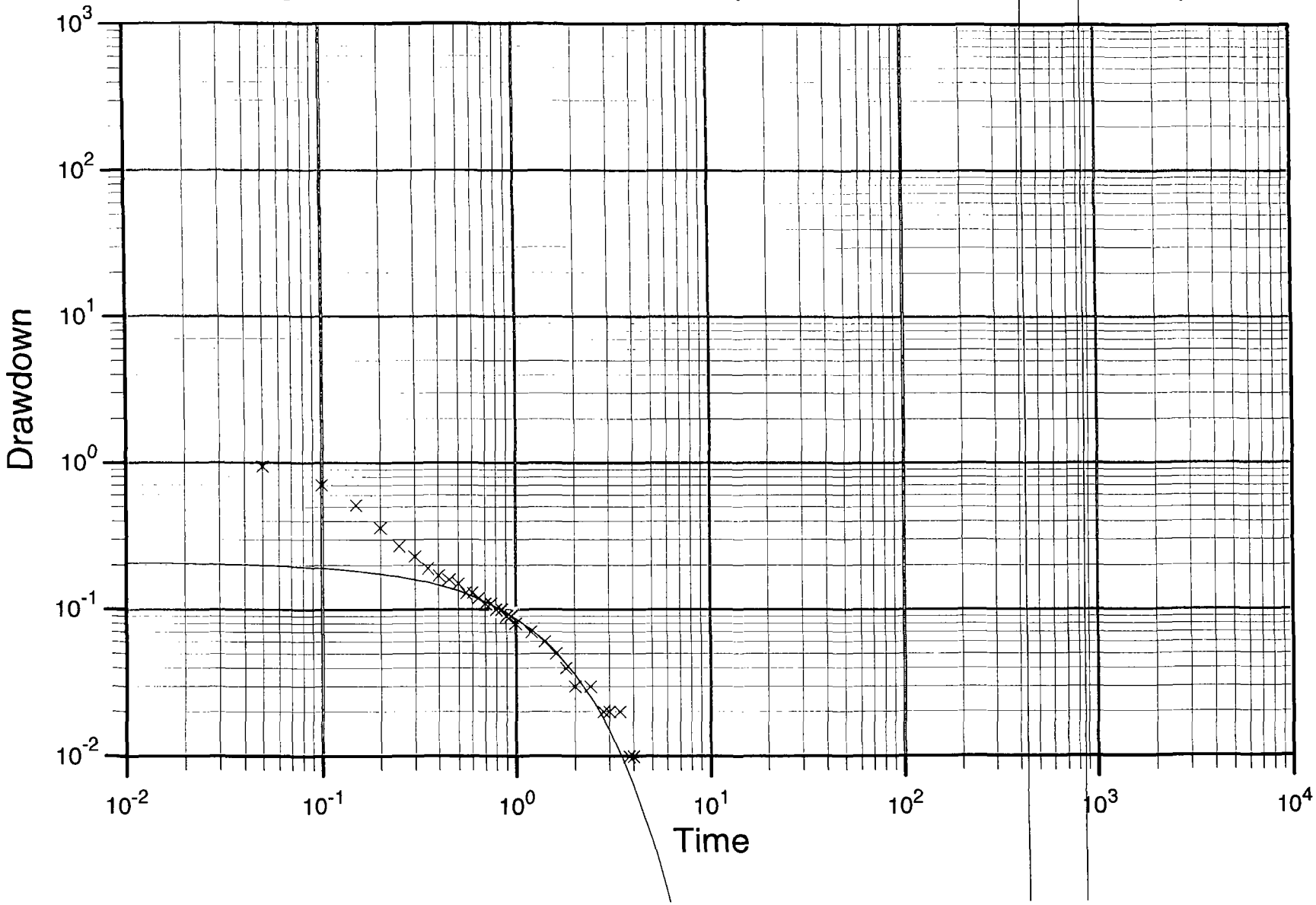
	Pumping test duration [min]	Water level [ft]	Drawdown [ft]
51	0.63	0.08	0.08
52	0.65	0.07	0.07
53	0.67	0.07	0.07
54	0.68	0.07	0.07
55	0.70	0.06	0.06
56	0.72	0.06	0.06
57	0.73	0.06	0.06
58	0.75	0.05	0.05
59	0.77	0.05	0.05
60	0.78	0.05	0.05
61	0.80	0.05	0.05
62	0.82	0.04	0.04
63	0.83	0.04	0.04
64	0.85	0.04	0.04
65	0.87	0.04	0.04
66	0.88	0.03	0.03
67	0.90	0.03	0.03
68	0.92	0.03	0.03
69	0.93	0.03	0.03
70	0.95	0.03	0.03
71	0.97	0.03	0.03
72	0.98	0.03	0.03
73	1.00	0.03	0.03
74	1.20	0.01	0.01
75	1.40	0.01	0.01
76	1.60	0.00	0.00
77	1.80	0.00	0.00

Slugtest Results: MW-516D



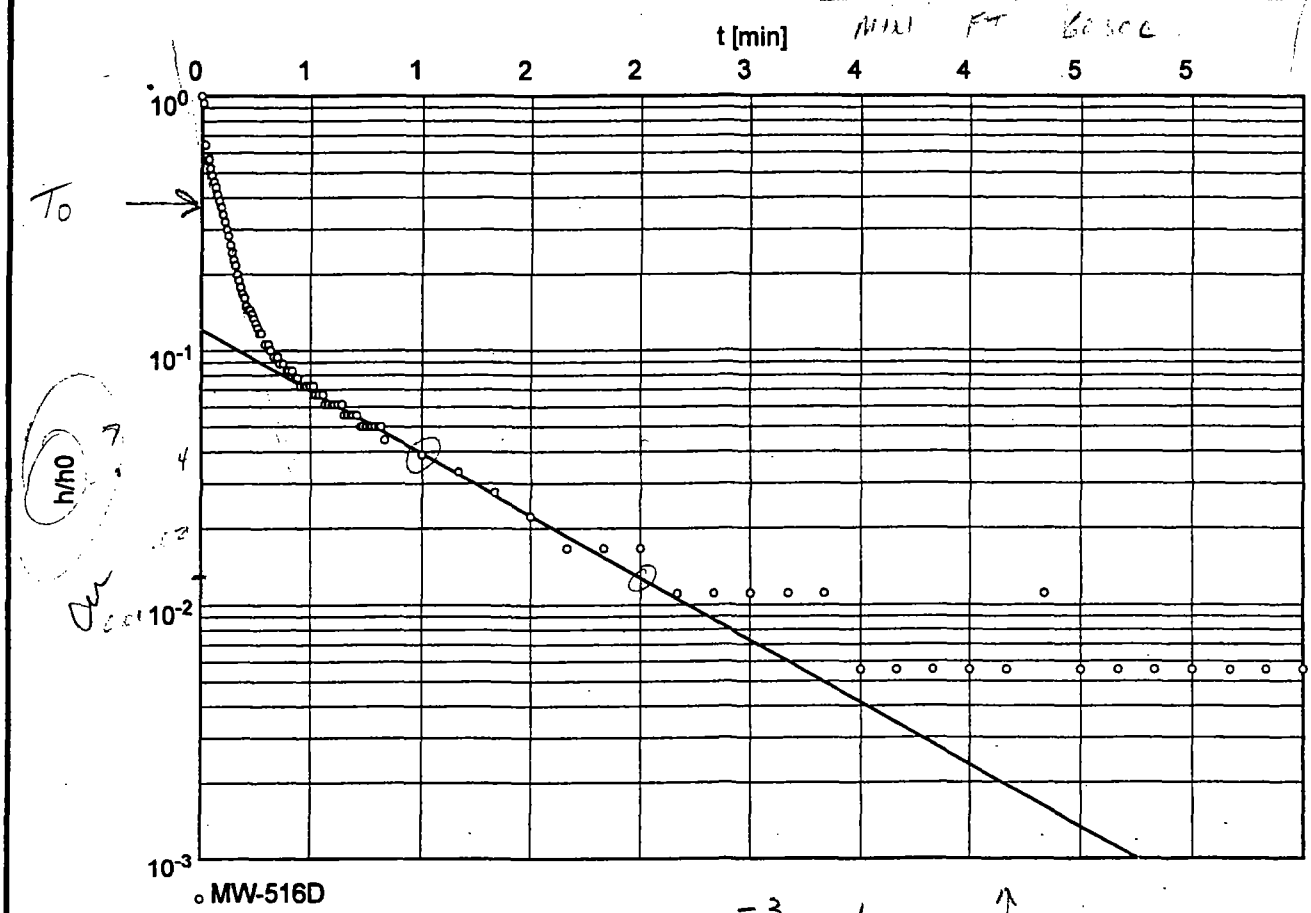
Bouwer and Rice Method (1976)

Slugtest Results: MW-516D (Plot vs. Predicted Curve)



Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method Graph reflecting Hvorlev?	Date: 18.02.1999 Page 1 Project: Lockformer Evaluated by: SA
Slug Test No. 01		Test conducted on: 2/17/99
MW-516D		

FT | 30.48 cm | 1 min
MIN | FT | 60 sec



3.25×10^{-3} cm/s

Hydraulic conductivity [ft/min]: 6.40×10^{-3}

3.25×10^{-5} m/s

cm

time →

Bouwer-Rice

Curve - OK

Method of Analysis - OK (?) Uncon. Aq.

Value compared to lithology y screen zone - OK.

Rising Bail test Max. Displacement 1.80

Line match - OK

99% Recovery

X	Y
1.0	0.04
2.0	0.012

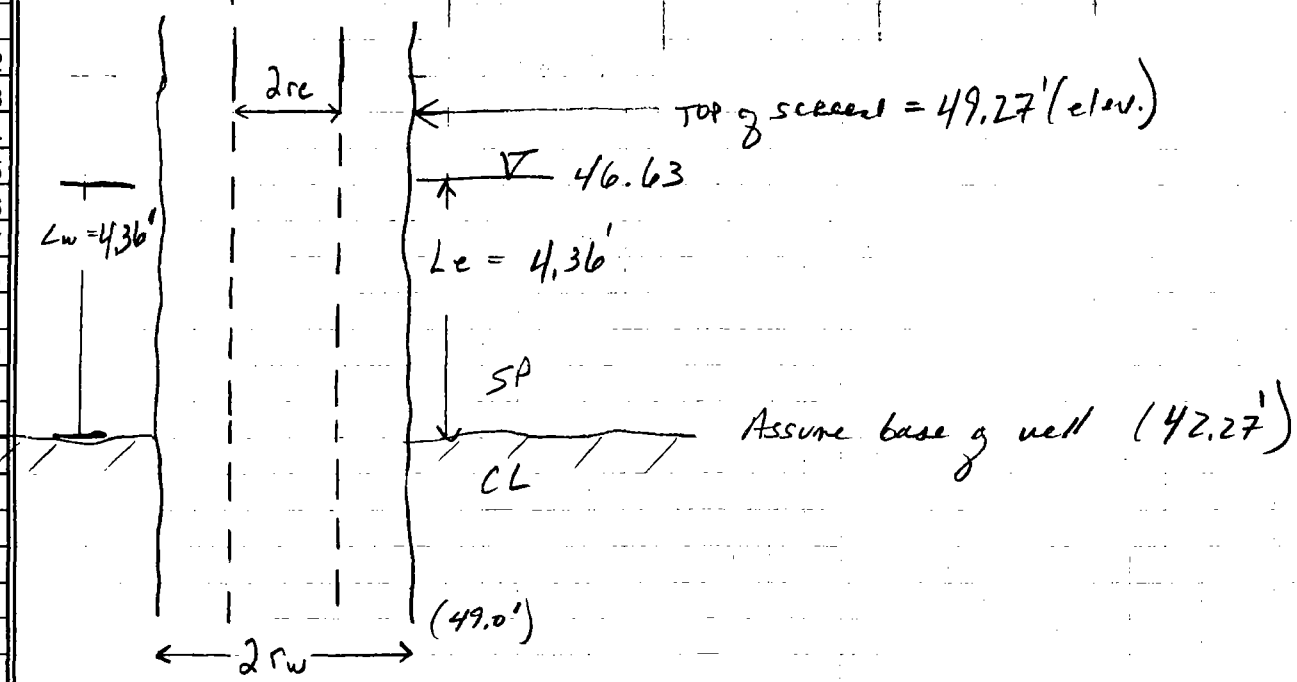
~~M = 6x + 4~~

Clayton GROUP SERVICES
3140 Finley Road, Downers Grove, IL 60515
(630) 795-3200 Fax (630) 795-1130

SHEET NO. 1 OF
PROJECT
DATE
BY CKD

MW-516D
EVALUATION USING BOUWER AND RICE (1976)

WELL	L_w	1" r_c	4" r_w	L_e	R_e
MW-516D	4.36	0.083	0.33	4.36	$L_w = H$ 1.89



$$\ln\left(\frac{R_e}{r_w}\right) = \left[\frac{1.1}{\ln(L_w/r_w)} + \frac{C}{L_e/r_w}\right]^{-1}$$

$L_e/r_w = 2.0/0.33 = 6.06$

$$= \left[\frac{1.1}{\ln(4.4/0.33)} + \frac{C}{(4.4/.033)}\right]^{-1}$$

$C = 1.5$ @ $\frac{L_e}{r_w} = 13$

$$= \left[\frac{1.1}{2.6} + \frac{1.5}{13.3}\right]^{-1} = \left[0.42 + 0.11\right]^{-1}$$

$$= [0.53]^{-1} = 1.89$$

Clayton GROUP SERVICES
3140 Finley Road, Downers Grove, IL 60515
(630) 795-3200 Fax (630) 795-1130

SHEET NO. 2 OF
PROJECT
DATE
BY CKD

MW-516D

MW-516D

$$K = \frac{r_c^2 \ln(R_e/r_w)}{2 L_e} \left(\frac{1}{t} * \ln \frac{y_0}{y_t} \right)$$

→ MIN

$$= \frac{(0.083\ FT)^2 (1.89)}{2(4.36\ FT)} * A$$

$$= \frac{0.007\ FT^2 (1.89)}{8.72\ FT} * A$$

$$= 0.00152\ FT\ (A/MIN)$$

$$= 0.00152\ FT\ (1.02/MIN)$$

$$= 0.00155\ FT/MIN$$

$$= 1.55 \times 10^{-3}\ FT/MIN$$

$$A = m = \frac{\ln y_2 - \ln y_1}{x_2 - x_1}$$

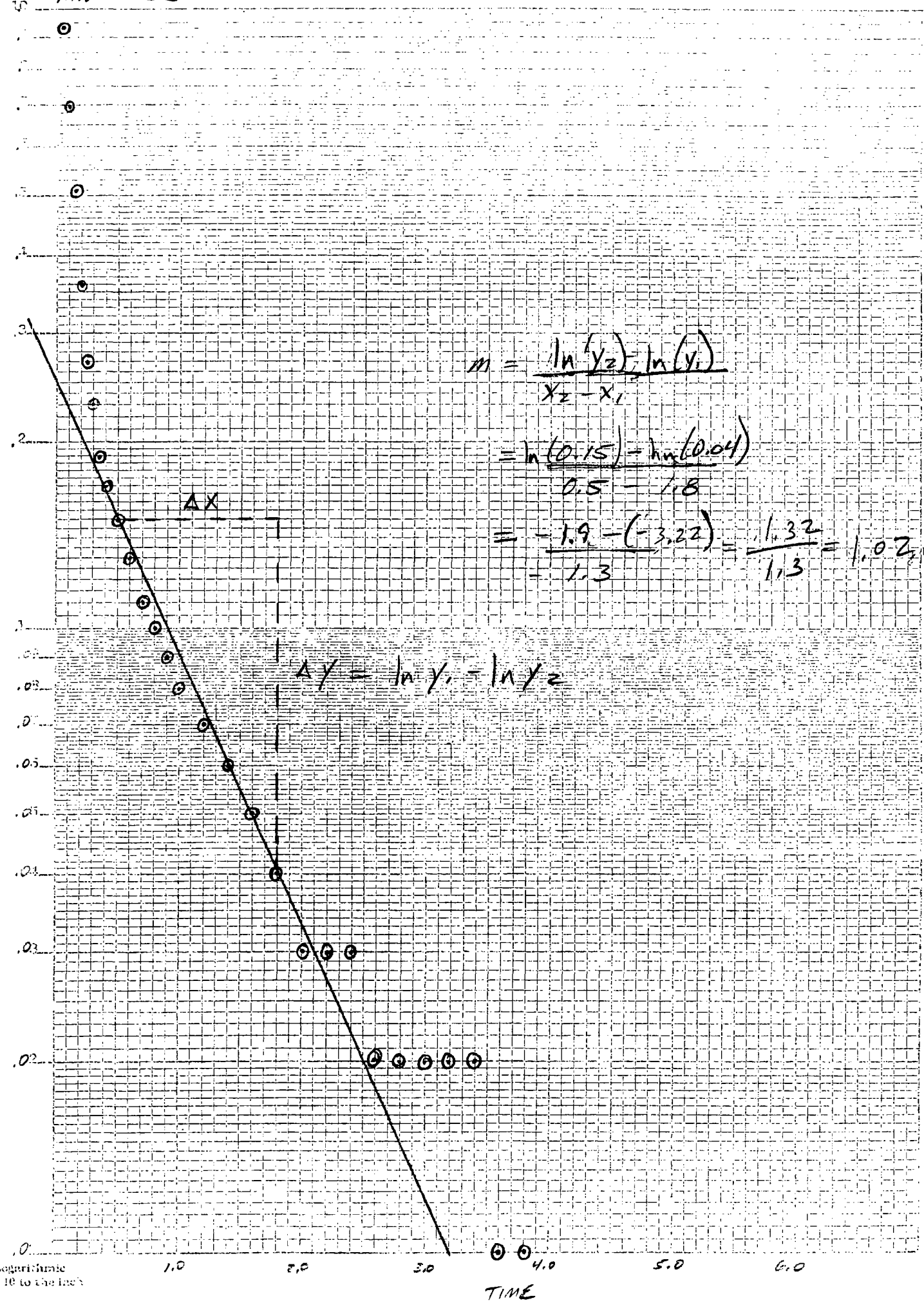
$$= \frac{\ln 0.15 - \ln 0.04}{0.5 - 1.8}$$

$$= \frac{-1.90 - (-3.22)}{-1.3}$$

$$= \frac{-1.32}{-1.3}$$

$$= 1.02$$

MW-516D



$$m = \frac{\ln(y_2) - \ln(y_1)}{x_2 - x_1}$$

$$= \frac{\ln(0.15) - \ln(0.04)}{0.5 - 1.8}$$

$$= \frac{-1.9 - (-3.22)}{-1.3} = \frac{1.32}{1.3} = 1.02 \text{ min}$$

Semi-Logarithmic
2 Cycles x 10 to the inch

Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method	Date: 18.02.1999 Page 2 Project: Lockformer Evaluated by: SA

Slug Test No. 01	Test conducted on: 2/17/99
MW-516D	MW-516D
Initial head ? Bgs	

Static water level: 0.00 ft below datum

	Pumping test duration [min]	Water level [ft]	Drawdown [ft]	
1	0.00	1.80	1.80	
2	0.01	1.69	1.69	
3	0.02	1.16	1.16	
4	0.03	1.01	1.01	
5	0.04	1.02	1.02	
6	0.05	0.94	0.94	
7	0.06	0.88	0.88	
8	0.07	0.83	0.83	
9	0.08	0.79	0.79	
10	0.09	0.74	0.74	
11	0.10	0.70	0.70	
12	0.11	0.66	0.66	
13	0.12	0.62	0.62	
14	0.13	0.58	0.58	
15	0.14	0.54	0.54	
16	0.15	0.51	0.51	
17	0.16	0.47	0.47	
18	0.17	0.44	0.44	
19	0.18	0.41	0.41	
20	0.19	0.39	0.39	
21	0.20	0.36	0.36	
22	0.21	0.34	0.34	
23	0.22	0.32	0.32	
24	0.23	0.30	0.30	
25	0.24	0.29	0.29	
26	0.25	0.27	0.27	
27	0.26	0.26	0.26	
28	0.27	0.26	0.26	
29	0.28	0.25	0.25	
30	0.29	0.24	0.24	
31	0.30	0.23	0.23	
32	0.31	0.22	0.22	
33	0.32	0.21	0.21	
34	0.33	0.21	0.21	
35	0.35	0.19	0.19	
36	0.37	0.19	0.19	
37	0.38	0.18	0.18	
38	0.40	0.17	0.17	
39	0.42	0.17	0.17	
40	0.43	0.16	0.16	
41	0.45	0.16	0.16	
42	0.47	0.15	0.15	
43	0.48	0.15	0.15	
44	0.50	0.15	0.15	* 1/2
45	0.52	0.14	0.14	
46	0.53	0.14	0.14	
47	0.55	0.13	0.13	
48	0.57	0.13	0.13	
49	0.58	0.13	0.13	
50	0.60	0.13	0.13	

Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method	Date: 18.02.1999 Page 3 Project: Lockformer Evaluated by: SA

Slug Test No. 01	Test conducted on: 2/17/99
MW-516D	MW-516D

Static water level: 0.00 ft below datum

	Pumping test duration [min]	Water level [ft]	Drawdown [ft]	
51	0.62	0.13	0.13	
52	0.63	0.12	0.12	
53	0.65	0.12	0.12	
54	0.67	0.12	0.12	
55	0.68	0.11	0.11	
56	0.70	0.11	0.11	
57	0.72	0.11	0.11	
58	0.73	0.11	0.11	
59	0.75	0.11	0.11	
60	0.77	0.11	0.11	
61	0.78	0.10	0.10	
62	0.80	0.10	0.10	
63	0.82	0.10	0.10	
64	0.83	0.10	0.10	
65	0.85	0.10	0.10	
66	0.87	0.09	0.09	
67	0.88	0.09	0.09	
68	0.90	0.09	0.09	
69	0.92	0.09	0.09	
70	0.93	0.09	0.09	
71	0.95	0.09	0.09	
72	0.97	0.09	0.09	
73	0.98	0.09	0.09	
74	1.00	0.08	0.08	
75	1.20	0.07	0.07	
76	1.40	0.06	0.06	
77	1.60	0.05	0.05	
78	1.80	0.04	0.04	
79	2.00	0.03	0.03	* Y_L
80	2.20	0.03	0.03	
81	2.40	0.03	0.03	
82	2.60	0.02	0.02	
83	2.80	0.02	0.02	
84	3.00	0.02	0.02	
85	3.20	0.02	0.02	
86	3.40	0.02	0.02	
87	3.60	0.01	0.01	
88	3.80	0.01	0.01	
89	4.00	0.01	0.01	
90	4.20	0.01	0.01	
91	4.40	0.01	0.01	
92	4.60	0.02	0.02	
93	4.80	0.01	0.01	
94	5.00	0.01	0.01	
95	5.20	0.01	0.01	
96	5.40	0.01	0.01	
97	5.60	0.01	0.01	
98	5.80	0.01	0.01	
99	6.00	0.01	0.01	
100	6.20	0.01	0.01	

Carlson Environmental, Inc. 65 E. Wacker Pl. Chicago, Illinois (312) 346-2140	slug/bail test analysis BOUWER-RICE's method	Date: 18.02.1999 Page 4 Project: Lockformer Evaluated by: SA

Slug Test No. 01	Test conducted on: 2/17/99
MW-516D	MW-516D

Static water level: 0.00 ft below datum

	Pumping test duration [min]	Water level [ft]	Drawdown [ft]
101	6.40	0.01	0.01
102	6.60	0.01	0.01
103	6.80	0.01	0.01
104	7.00	0.01	0.01
105	7.20	0.01	0.01
106	7.40	0.01	0.01
107	7.60	0.01	0.01
108	7.80	0.01	0.01
109	8.00	0.01	0.01
110	8.20	0.01	0.01
111	8.40	0.01	0.01
112	8.60	0.01	0.01
113	8.80	0.01	0.01
114	9.00	0.01	0.01
115	9.20	0.01	0.01
116	9.40	0.01	0.01
117	9.60	0.01	0.01
118	9.80	0.01	0.01
119	10.00	0.01	0.01
120	12.00	0.01	0.01
121	14.00	0.01	0.01
122	16.00	0.01	0.01

CARLSON ENVIRONMENTAL, INC.
65 East Wacker Place
Chicago, Illinois 60601
312/346-2140

Log of Boring SB-516D

Lockformer
711 Ogden Ave.
Lisle, IL

PN: 9786C

Date & Time Started	: 2/5/99 (1225)	Surface Elevation	: 88.27'
Date & Time Finished	: 2/5/99 (1348)	Driller	: Mid-America
Logged By	: LMP	Drill Method	: Diedrich D-120
Depth to water	: N/A	Sample Method	: 2'-2' Split Spoon

Depth in feet	Sample Number	Depth Interval	Time	Blow Counts	Recov. (inches)	PID (units)	Graphic Log	USCS Log	Materials Description	Remarks
0–24									Blind drill to 25'	
26	SB-516D(A)	25-27	1300	18,13,21,31	8"	4.2			Low recovery Light brown/reddish sand/gravel/limestone fragments, dry, dense	SB-516D(A) submitted for analysis
30									Continue blind drill to 35'	
34–44								SW	Low recovery Same as above	
36	SB-516D(B)	35-37	1318	75/2"	3"	-				
44–46								SP	Gray/brown poorly-graded fine sand, trace silt, saturated	
46	SB-516D(C)	45-47	1335	7,14,11,11	18"	0				
48–50	SB-516D(D)	47-49	1342	1,14,18,12	12"	4.3		CL	Gray SILTY CLAY	
50									End of Boring 49'	

10-12-1999 m:\mtech\boring\9719786clab-516d.bor

CARLSON ENVIRONMENTAL, INC.
65 East Wacker Place
Chicago, Illinois 60601
312/346-2140

Log of Boring MW-516D/SB-516D

Lockformer
711 Ogden Ave.
Lisle, IL

PN: 9786C

Installation Date	: 2/5/99	Surface Elevation	: 88.27'
Drilling Method	: Diedrich D-120/HSA	Casing Elevation	: 90.63'
Drilling Contractor	: Mid-America Drilling	Casing Stickup	: 2.36'
Sampling Method	: 2'-2" Split Spoon	Surveyed	: 02/20/99

Well: MW-516D/SB-516D
Elevation: 90.63'

Well Construction Information

WELL CONSTRUCTION

Date Compl.	: 2/5/99
Hole Diameter	: 8"
Drilling Fluid	: none
Company Rep.	: CEI

WELL CASING

Material	: PVC
Diameter	: 2 in.

WELL SCREEN

Material	: Stainless Steel
Diameter	: 2 in.
Opening	: .010 slot

WELL MATERIALS

Sand Pack	: #5 quartz
Annulus Seal	: Bentonite Pellets
Grout	: Cement

COUNTY/STATE : DuPage, Il

Development Technique(s) and Dates: Envirotech submersible purge pump, 2/15/99

Static Depth to Water Date: 2/15/99, 3/99

Static Depth to Water(feet): 44.0, 44.65

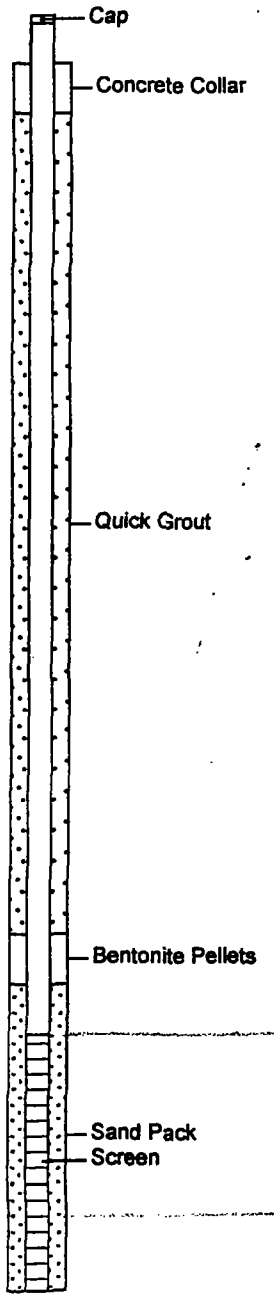
Ground Water Elevation: 46.63', 45.98'

Water Removed During Development(gals): 65

Well Purpose: Monitoring

— UNCONFINED AQ.
FINE SAND

10 FT
WELL SCREEN
6' IN SAND



Materials Description

Blind drill to 25'
See previous log

Low recovery
Light brown/reddish sand/gravel and limestone fragements, dry, dense

Continue blind drill to 35'

Low recovery
Same as above

Gray/brown poorly-graded fine sand, trace silt, saturated

Gray SILTY CLAY

End of Boring at 49'

46.6'
42.2'

10-12-1999 m:\mtech\borings\97\9786c\mw-516d.bor

APPENDIX C

DRINKING WATER INFORMATION AND WELL LOGS

VILLAGE OF LISLE

INTEROFFICE MEMORANDUM

RECEIVED
MAR 15 1999
VILLAGE OF LISLE
BUSINESS OFFICE

DATE: March 11, 1999

TO: Judy Lagro, Business Office Manager

FROM: Ray L. Peterson, Public Works Director

RE: **FOIA - LISA MEAGHER - 3/10/99**
- Water / Wells

Attached are copies of the following, responding to Ms. Meagher's FOIA request:

1. DuPage County Code regarding private well construction
2. Village Code 4-1-5 (A) 4. and 4-3-2 (B)
3. Village Code 6-4-14 (A)
4. Village Code 7-5-12 (A) & (B) and 7-5-3 (C)

These are current codes regarding requirements to connect to Village water where available, and disconnection from an existing well when a property connects to Village water. There may also be plumbing codes, administered by the Building Department, addressing this request.

All Village water customers (not Citizens Utilities) are provided Lake Michigan water through the Village's distribution system. There are approximately 300 properties on their own wells. They are in the older areas of the Village where the houses were built before Village watermain was installed. These owners can keep their existing wells.

Property owners cannot install a new potable well per County ordinance, unless Village watermain is not reasonably available. This situation only exists, to my knowledge, in the Hitchcock Avenue/ Illinois Avenue area. Otherwise, Village watermain is reasonably available to all properties currently within the Village limits.

(Time spent on this request - one hour)

RLP/dml

Attachment

cc: File 155.0 Freedom of Information Act Request
rp031199

DuPage County Water Supply Ord

1.8. PUBLIC WATER SUPPLIES:

Construction of a water well shall not be permitted on property where a community public water supply is reasonably available except as provided under Section 920.30 c Variance in the Illinois Water Well Construction Code. If a community public water supply is not reasonably available, then every residence, business building, or enterprise shall have its own private water supply in conformance with the provisions set forth in this Ordinance.

1.9. INDIVIDUAL SERVICE:

Each residence, business building, or enterprise shall be served by its own separate water well located on the property whereon it is located except where the residence, building, or enterprise is connected to a community public water supply.

inside a wall or partition must be metallic. Any PVC piping with glued joints must use primer.

2. Underground Drain, Waste And Vent: Cast iron bell and spigot.

3. Roof Drains, Above Grade: Cast iron.

4. Underground Water Supply Piping: Type "K" copper or ductile iron (polyethylene plastic pipe or tubing may be used for wells only).

5. Aboveground Water Supply Piping: Type "L" copper.

6. Fire-Rated Wall, Floor Or Ceiling: Where piping in a building passes through or is contained inside a fire-rated wall, floor or ceiling, all the pipe in the building must be metallic.

7. Compression Type Joints: Compression type joints for hub and spigot cast iron is for underground use only.

8. Prohibitions: No hub cast iron is prohibited.

(B) Water And Sanitary Sewer Service: All building water and sewer services must comply with the following requirements:

1. Water and sewer services shall be installed a minimum of five feet (5') in depth and shall have a horizontal separation of ten feet (10'). Shelving is permitted only with the prior approval of the Plumbing Inspector.

2. All building water services must comply with Section 7-5-16 of this Village Code.

3. All building sanitary sewer connections shall comply with Section 7-6-12 of this Village Code.

4. All underground waste and vent piping must be a minimum four inch (4") diameter cast iron.

5. A single-family residential building sewer must be a minimum four inch (4") in diameter. A commercial building sewer must be brought into the building a minimum of six inches (6") in diameter.

6. A clean-out is required to be installed just inside a foundation wall. Outside clean-outs are not allowed except with the prior approval of the Plumbing Inspector. Clean-out plugs shall be the threaded type.

7. The minimum size water service is one inch (1") and all joints in the copper water lines underground shall be flared type joints.

8. A full port shut-off valve is required on the inlet side of the water meter; further the first joint of the valve shall be the flared type.

9. When a building is connected to the public water system when previously they had been serviced by a well, the well must be sealed to comply with the DuPage County Health Department regulations. If an existing building had been previously connected to the public water system and the well was not sealed, the well must be sealed.

(C) Fixtures: The following special fixture requirements shall apply in the Village:

1. Used plumbing materials and fixtures are not permitted to be used except that existing fixtures in a remodeled facility may be used if they conform to the water conservation requirements of the Plumbing Code. No used piping may be used.

2. All openings in the water supply system shall have air chambers installed.

3. All residential kitchen sinks require a minimum two inch (2") waste opening.

4. All air-conditioning systems must be the closed type when installed in a new or remodeled building.

5. Floor-mounted urinals are not permitted.

6. Tank type urinals are not permitted.

7. Showerheads are limited to a maximum flow rate of three (3) gallons per minute.

8. In shower rooms intended for public use, the showerheads are to be serviced by metering self-closing control valves whose cycle is not to exceed sixty (60) seconds thermostatically controlled water at a temperature not to exceed one hundred five degrees Fahrenheit (105°F).

9. Lavatory faucets intended for public use must be metering self-closing type.

6-4-14: UTILITIES AND DRAINAGE:
The following requirements are applicable to all subdivisions within the jurisdiction of the Commission:
(A) WATER SUPPLY: All residential, commercial, industrial and community facility buildings or structures shall be served by an adequate water supply and distribution system. The design of the system shall be in accordance with the requirements of the State of Illinois Department of Health, National Board of Fire Underwriters and in accordance with the current Standard Details,2 regulations and specifications of the Village:

7-5-3: **PERMIT REQUIRED:**

(A) No person shall make any connection to the water system of the Village without having first obtained a permit from the Community Development Director.

(B) The supply of water from the Village to any and all customers or users is governed by the rates, regulations, and other terms set forth in this Village Code, as from time to time amended, including the right to file liens for nonpayment as set forth in Section 7-5-7 of this Chapter. A copy of this Chapter properly certified by the Village Clerk and filed in the Recorder's office of DuPage County, Illinois, shall be deemed notice that the supply of water by the Village is governed by said Code.

(C) For new construction, the owner of the premises must execute an application to have water turned on, which application shall contain terms consented to by the owner (hereinafter "application/agreement"). Such application/agreement shall provide that the terms set forth therein shall run with the land and inure to the benefit of, and be binding upon, all successors in title of the subject premises. Upon review of said application/agreement, the Public Works Director shall make a determination as to whether a water connection permit shall be issued and, if appropriate, shall issue such a permit.

(D) Whenever the user of the Village water services intends to cease using such services, due to moving or other reasons, said user must notify the Village of the day he intends to cease using water services. Notification may be made to the Village billing department by telephone or in writing, which department shall record such notification in the ordinary course of business. The Village will then perform a final reading of the meter and bill the user accordingly. To transfer billing of water services to a new user when no transfer of ownership is anticipated, the new user must notify the billing department. Regardless of any such notification, however, the owner of the premises will remain liable for any water services used prior to his conveyance of the title to the property.

(E) Whenever the owner of the premises serviced by the Village water intends to sell or otherwise convey the property, he must notify the billing department of the date scheduled for closing. On that date, the Village will conduct a final reading and bill the owner accordingly. The proposed buyer must also notify the Village of the date he intends to begin using the Village water. (Ord. 95-2684, 9-5-1995)

7-5-12: **COMPLIANCE TO PLUMBING REGULATIONS:**

(A) Plumbing Rules: No water shall be turned on for service in premises in which the plumbing does not comply with the ordinances of the Village[1] provided that water may be turned on for construction work in unfinished buildings, subject to the provisions of this Chapter.

(B) Abandon Wells: No water from the Village water supply shall be turned on for service into any premises which has tapped onto the Village water mains, unless and until any and all existing wells located on the premises being served shall have been abandoned and properly sealed according to requirements propounded by the State and the County of DuPage Health Department. The Public Works Director may approve the turn-on of Village water for up to thirty (30) days while an existing well is being sealed, as long as there is no cross-connection with the Village water system. (Ord. 95-2684, 9-5-1995)

7-5-13: **RESALE OF WATER:** No water shall be resold or distributed by the recipient thereof from the Village supply to any premises other than that for which application has been made and the meter installed, except in the case of emergency and when approved by the Village Manager. (Ord. 95-2684, 9-5-1995)

7-5-14: **LIABILITY OF VILLAGE:** All connections and water applied for hereunder, and all the water used hereunder, shall be upon the express condition that the Village shall not be liable, nor shall any claim be made against it, for damages or injury caused by reason of the breaking of any main, branches, service pipes, apparatus or appurtenances connected with said waterworks system or any part or portion of said plant, or for any interruption of the supply by reason of the breakage of machinery, or by reason of stoppage, alterations, extensions or renewals. (Ord. 95-2684, 9-5-1995)

7-5-15: **RIGHT OF ACCESS:** The Village and its employees shall have ready access, to the extent allowed by law, to the premises, places or buildings where meters or water shut-off valves are located for the purpose of reading, examining, testing, shutting off or turning on water, and repairing the same, and examining and testing the

1. See Chapter 3 of Title 4 of this Code.

(Response Form A)
APPROVAL OF REQUEST FOR PUBLIC RECORDS

To: Ms. Lisa Meagher
120 Melrose Ave.
Elmhurst, IL 60126
312-346-2140

From: Freedom of
Information Officer
1040 Burlington Avenue
Lisle, IL 60532

DESCRIPTION OF REQUESTED RECORDS:

Info regarding potable drinking water.

Your request dated 03/10/99 for the above captioned records has been approved.

_____ The documents you requested are enclosed.

_X_ The documents will be made available upon payment of copying costs in the amount of $1.30.

_____ You may inspect the records at the Village of Lisle Business Office Monday through Friday 7:00 a.m. to 4:30 p.m.

NO RECORD OF REQUESTED DOCUMENTS/MATERIAL

DESCRIPTION OF REQUESTED RECORDS:

Your request dated for the above captioned records can not be completed due to the following:

_____ After searching the Village Clerk records, it has been determined that the requested documents are not on file or do not exist.

Judy Sagles
Freedom of Information Officer

3/17/99
Date

AMOUNT DEPOSITED: _____
FINAL AMOUNT: $1.30

YS SECTION. BE SURE TO

(6)

EOLOGICAL WATER SURVEYS WATER WELL RECORD

Completed 2-8-71

Dept. Mines and Minerals permit No. 11676 Year 71

Property owner R. JOHNSON Well No. _____

Address 592 REIDY RD

Driller K-K WELL License No. 92532

Water from LIMESTONE 13. County DuPage

Formation

at depth 40 to 140 ft. Sec. 11

Screen: Diam. _____ in. Twp. 38N

Length: _____ ft. Slot _____ Rng. 10E

Elev. _____

. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	GALV #15	0	75

SHOW LOCATION IN SECTION PLAT

Lot 15 Lisle Countryside #5 S.D. in NE

.6. Size Hole below casing: 5 in.

17. Static level 40 ft. below casing top which is 2 (permit) ft. above ground level. Pumping level _____ ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	75
Rock formation	75	140
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Phil Knieim DATE 2/12/71

COUNTY No. 1477

DUPAGE 11-38N-10E

STED AND MAIL O. NAL TO STATE DE-
STATE OFFICE BUILDING, SPRINGFIELD,
/WATER SURVEYS SECTION. BE SURE TO

(11)

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 4-9-70

10. Property owner Pegalek Well No. _____
Address 5005 Columbia, Lisle Ill
Driller R+K well Drill License No. 92-518
11. Permit No. 9266 Date 3-24-70
12. Water from Limestone Formation 13. County DuPage
at depth 90 to 160 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 11
Twp. 38N
Rge. 10E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	15 lb. seamless	0	84

SHOW LOCATION IN SECTION PLAT
Lot 1 Snows S.D. in W½ of section (permit)

16. Size Hole below casing: 5 in.
17. Static level 90 ft. below casing top which is 2 ft. above ground level. Pumping level 105 ft. when pumping at 20 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	84
Rock Formation	84	160

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knuesen DATE 6-4-70

COUNTY No. 1367

DUPAGE 11-38N-10E

ESTED AND MAIL ... GINAL TO STATE
ER HEALTH PROTECTION, 535 WEST
DO NOT DETACH GEOLOGICAL/WATER
OPER... LOCATI...

within 2500

12

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 11-11-75

1. Property owner Anthony Chojnowski Well No. _____
Address 419 Railroad, Lisle, Illinois
Driller DuPage Pump, Inc. License No. 102-3
1. Permit No. 43078 Date 11-17-75
2. Water from Limestone (Formation) 13. County DuPage
at depth ____ to ____ ft.
4. Screen: Diam. ____ in.
Length: ____ ft. Slot ____

Sec. 11
Twp. 38N
Rge. 10E
Elev. ____

			X
			X

5. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Steel 14.98	0	70'

SHOW LOCATION IN SECTION PLAT

Lot #27 McIntosh's 1st Add. Belmont E/2 NE (permit)

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is 8 in. above ground level. Pumping level 40 ft. when pumping at 10 gpm for 2 hours. Sub. pump set at 100'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	70'	70'
Limestone	50'	120'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Fraser Yeoman DATE 11-19-75

COUNTY No. 24334

DU PAGE 11-38N-10E

over 2,500'

(17)

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Martin, Oscar Well No. _____
Address % Adaline Manajan 1007 Maple Ave. Lisle IL
Driller Wellendorf, Rodney License No. 102-2078
11. Permit No. H950407 Date 12/05/95
12. Water from limestone 13. County DuPage
at depth 99 to 200 ft. Sec. 11
14. Screen: Diam. _____ in. Twp. 38 N
Length: _____ ft. Slot _____ Rge. 10 E
Elev. _____

SW SW SW

MATCH

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
5	200# PSI PVC	0	103

16. Size hole below casing: 4.62 in.
17. Static level 60 ft. below casing top which is 1 ft. above ground level. Pumping level 40 ft. when pumping at _____ gpm for 1 hours.

18. Formations passed through	Thickness	Bottom
topsoil	3	3
clay	77	80
gravel	19	99
limestone	101	200

Household - Private

DuPage 12-043-29872-00 11-38N-10E

Strata	Thickness	Top	Bottom
Dolomite, white, light buff, trace pink and yellow, fine to very fine, crystalline, with some visible (microscopic verge) porosity	15		160
Dolomite, white, little yellow, fine to very fine, crystalline	15		175
Dolomite, cherty to slightly cherty, white, little buff, very fine, crystalline, little partly granular	10		185
Dolomite, white to light buff, fine to very fine, crystalline	5		190
Dolomite, silty, slightly glauconitic, yellow, light green, light pinkish-yellow, little white, very fine, crystalline; Siltstone, very dolomitic, slightly sandy, slightly glauconitic, purple, red, tough	10		200 TD

Layne-Western Company Oakview Subdivision # 1

COUNTY DUPAGE S.S.# 27990 11-38N-10E

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

25

Over 2,500

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 14 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. 5 in. Depth 87 ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 75'
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50' Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed 1-14-87
5. Permanent Pump Installed? Yes ____ Date ____ No X
   Manufacturer ____ Type ____ Location ____
   Capacity ____ gpm. Depth of Setting ____ Ft.
6. Well Top Sealed? Yes X No ____ Type Vermin-Proof (Wms.)
7. Pitless Adapter Installed? Yes ____ No ____
   Manufacturer ____ Model Number ____
   How attached to casing? ____
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes ____ No ____
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No X

REMARKS: County # 27664

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Jack Spinney Well No. 1
    Address Lot #12; 5506 Essex Rd., Lisle, IL
    Driller Charles Fykes License No. 102-23
11. Permit No. 129109 Date 1-13-87
12. Water from Limestone (Formation) at depth 100 to 145 ft.
13. County DuPage
    Sec. 11.8a
    Twp. 38N
    Rge. 10E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____

X			

SHOW LOCATION IN SECTION PLAT
Lot #12
SW SW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0	87

16. Size Hole below casing: 5 in.
17. Static level 80 ft. below casing top which is +1 ft. above ground level. Pumping level 100 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	5'	5'
Sand & Gravel	10'	15'
Sandy Clay	35'	50'
Blue Clay	20'	70'
Gravel	15'	85'
Broken Limestone	2'	87'
Limestone	8'	95'
Void	5'	100'
Limestone	45'	145'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE Jan. 19, 1987

IDPH 4.0

White Copy – Ill. Dept of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(12)
75

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 160 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

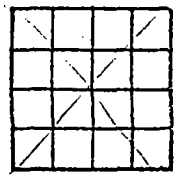
2. Distance to Nearest:
   Building 8 Ft. Seepage Tile Field 75'
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50' Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No ____
4. Date well completed September 11, 1973
5. Permanent Pump Installed? Yes X No ____
   Manufacturer Red Jacket Type Submersible
   Capacity 10 gpm. Depth of setting 120' ft.
6. Well Top Sealed? Yes X No ____
7. Pitless Adaptor Installed? Yes X No ____
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes ____ No X

REMARKS: Owner instructed to take sample.

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Ronald Doerr Well No. ____
    Address 825 Hitchcock - Lisle, Illinois
    Driller Du Page Pump, Inc. License No. 92-147
11. Permit No. 25025 Date August 22, 1973
12. Water from Limestone Formation 13. County DuPage
    at depth ____ to ____ ft. Sec. 10
    14. Screen: Diam. ____ in. Twp. 38N
    Length: ____ ft. Slot ____ Rge. 10E
    Elev. ____



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	0'	92'

SHOW LOCATION IN SECTION PLAT
Lot 4, Blk 7 A.T. The Intosh's Lisle Countryside Unit #3 Sub located in above section

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is 8 ft. above ground level. Pumping level 80 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	92'	92'
Limestone	68'	160'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Owen Yeoman DATE September 11, 1973

4403 CENTER

616, STATE OFFICE BUILDING, SPRINGFIELD,
GICAL / WATER SURVEYS SECTION. BE SURE TO

(103)

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 8-3-73

10. Property owner Kellog Benedy Well No. _____
Address Lot 24 Blk 7 Lisle Devel
Driller RH Well License No. 92532
11. Permit No. 23947 Date 7/5
12. Water from Limestone Formation 13. County DuPage
at depth 40 to 80 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 2
Twp. 38N
Rge. 10E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk 15	42	80

SHOW LOCATION IN SECTION PLAT
Lot 24 Blk 7 Lisle Dev. in SW (permit)

16. Size Hole below casing: 5 in.
17. Static level 42 ft. below casing top which is 2 ft. above ground level. Pumping level 70 ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	42	42
Rock Formation	38	80

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 8/9

COUNTY No. 3355

DUPAGE 2-38N-10E

(104)

STATE OFFICE BUILDING, SPRINGFIELD,
L/WATER SURVEYS SECTION. BE SURE TO

N

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 8-3-73

44400 BUCKLEY

10. Property owner Kellog Benet Well No. _____
Address Lot 1 Lisle Develop
Driller KK Well License No. 92532
11. Permit No. 23948 Date 7/5
12. Water from Limestone (Formation) 13. County DuPage
at depth 40 to 90 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 2
Twp. 38N
Rge. 10E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk 15	0	42

SHOW LOCATION IN SECTION PLAT
Lot 1 Blk 7
Lisle Dev. in
SW(permit)

16. Size Hole below casing: 5 in.
17. Static level 42 ft. below casing top which is 2 ft. above ground level. Pumping level 75 ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	42	42
Rock formation	48	90

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 8/9

COUNTY No. 3321

DUPAGE 2-38N-10E

STATE OFFICE BUILDING, SPRINGFIELD,
./WATER SURVEYS SECTION. BE SURE TO

(1)

(15) NO 1 15N4

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 3-22-73

4407 Center

10. Property owner Kelly Benet Well No. _____
Address Lot 22 Lisle Dev
Driller KK Well License No. 92532
11. Permit No. 21827 Date 2/8/73
12. Water from Limestone (Formation) 13. County DuPage
at depth ____ to ____ ft.
14. Screen: Diam. ____ in.
Length: ____ ft. Slot ____

Sec. 2
Twp. 38N
Rge. 10E
Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Bell	0	40

SHOW LOCATION IN SECTION PLAT
Lot 22 Blk 7
Lisle Dev.Subd.
in SW (permit)

16. Size Hole below casing: 5 in.
17. Static level 32 ft. below casing top which is 2 ft. above ground level. Pumping level 60 ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	40	40
Rock formation	40	80

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 3/23

COUNTY No. 3132

DUPAGE 2-38N-10E

(106)

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 50 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth 50 ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings		

2. Distance to Nearest:
   Building 35 Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 75 Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed Nov 16th 1978
5. Permanent Pump Installed? Yes X Date 11 16 78 No ____
   Manufacturer Red Jacket Type Subm Location Well
   Capacity ____ gpm Depth of Setting 40 Ft.
6. Well Top Sealed? Yes X No ____ Type ____
7. Pitless Adapter Installed? Yes ✓ No ____
   Manufacturer Williams Model Number ____
   How attached to casing? Clamp on
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes X No ____
10. Pressure Tank Size 42 gal. Type Con Aire
    Location Crawl Space
11. Water Sample Submitted? Yes ____ No ✓
REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner James P. Hansen Well No. ____
    Address 4413 Center, Hole
    Driller K & K Well drilling License No. ____
11. Permit No. 81845 Date ____
12. Water from Limestone (Formation) 13. County DuPage
    at depth 37 to 50 ft. Sec. 24d
    14. Screen: Diam. ____ in. Twp. 38N
    Length: ____ ft. Slot ____ Rge. 10E
    Elev. ____

		X	

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blev Pipe	0	37

SHOW LOCATION IN SECTION PLAT
lot 19, NW NW SE

16. Size Hole below casing: 5 in.
17. Static level 30 ft. below casing top which is 2 ft. above ground level. Pumping level 40 ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	37	37
Limestone	13	50

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED ____ DATE ____

IDPH 4.065
1/74 – KNB-1

107

LOG OF WATER WELL Permit #504

Property owner T. Schueneman Well No. 2.8C

Drilled by Kenneth Beylis Year 1959

Formations passed through	Thickness	Depth of Bottom
Black soil	2	2
Yellow clay	15	17
Sand & Gravel	23	39
Limestone	20	59

[Continue on back if necessary]

Finished in Limestone at 39 to 59 ft.

Cased with 6 inch Black from 0 to 39 ft.

and inch from to ft.

Size hole below casing 6 inch. Static level from surf. 26 ft.

Tested capacity gal. per min. Temperature °F.

Water lowered to ft. in. in hrs. min.

Length of test hrs. min. Screen

Slot Diam. Length Bottom set at ft.

1050' S. of N. line and 400' E. of W. line

[Show location in Section Plat]

Township name Elev. 682

Lot 10 or 9, Bl. 7, Lisle Devel #1

Description of location

4416 Buckley St., Lisle

Sec. SW2

Twp. 38N

Rge. 10E

Signed County DuPage-38N10E-2.8c

Copy for Well Owner Carl Index:

4424 Buckley

(108)

(65600—60M—10-57) 2

(B) (27)

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Brown Clay	4	0	4
Gravel (coarse)	27	4	31
Gravel (fine)	11	31	42
Limestone	43	42	85
			TD

Finished in Limestone at 43-85'

Cased with 5" Black Casing from [illegible]-43'

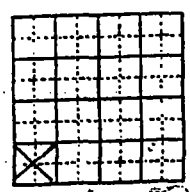
Size hole below casing 5"

Static level from surface 35'

Temperature 51°F

Collected by A. J. Zeizel
No Envelope

COMPANY Arnt and Son
FARM Fields Construction NO.
DATE DRILLED 1957 COUNTY NO. 114
AUTHORITY N. Arnt, Jr.
ELEVATION 642'±
LOCATION Buckley and Middletown Road
COUNTY DU PAGE Lisle



2-38N-1

White — Ill. D... of Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTI... TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(109)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 100 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven _____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled X. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

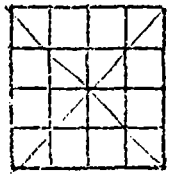
2. Distance to Nearest:
   Building 20 Ft. Seepage Tile Field 75
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank 50 Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes X No _____
4. Date well completed 5-25-73
5. Permanent Pump Installed? Yes X No _____
   Manufacturer Red Jacket Type Submersible
   Capacity 10 gpm. Depth of setting 60 ft.
6. Well Top Sealed? Yes X No _____
7. Pitless Adaptor Installed? Yes X No _____
8. Well Disinfected? Yes X No _____
9. Water Sample Submitted? Yes _____ No X

REMARKS: Owner Instructed to take sample

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Theodore Codar Well No. _____
    Address 4426 Kingston, Lisle, Illinois
    Driller DuPage Pump, Inc. License No. 92-147
11. Permit No. 23215 Date 5-22-73
12. Water from Limestone (Formation) 13. County DuPage
    at depth ____ to ____ ft. Sec. 2
    14. Screen: Diam. ____ in. Twp. 38N
    Length: ____ ft. Slot _____ Rge. 10E
    Elev. _____



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Steel 14.98	0	50

SHOW LOCATION IN SECTION PLAT
Lot 14 Arthur T. McIntosh & Company Lisle Development Unit 1 Sub. Located in the above described section

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is 8 ft. above ground level. Pumping level 35 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	50	50
Limestone	50	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Owner Yeomans DATE 5-25-73

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

STRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(110)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 100 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 12 Ft. Seepage Tile Field 75'
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50' Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed 3-26-76
5. Permanent Pump Installed? Yes X Date 3-29-76 No ____
   Manufacturer Red Jacket Type Subm. Location Well
   Capacity 10 gpm. Depth of Setting 80 Ft.
6. Well Top Sealed? Yes X No ____ Type ____
7. Pitless Adapter Installed? Yes X No ____
   Manufacturer Williams Model Number B50AC
   How attached to casing? Screwed on
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes X No ____
10. Pressure Tank Size 42 gal. Type Air seal
    Location Basement
11. Water Sample Submitted? Yes ____ No X

REMARKS: Owner responsible for sample.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner John Tarasewicz Well No. ____
    Address 4424 Kingston, Lisle, Ill.
    Driller DuPage Pump, Inc. License No. 102-3
11. Permit No. 45835 Date 3-30-76
12. Water from Limestone (Formation) 13. County DuPage
    at depth ____ to ____ ft. Sec. 2
14. Screen: Diam. ____ in. Twp. 38N
    Length: ____ ft. Slot ____ Rge. 10E
    Elev. ____

SHOW LOCATION IN SECTION PLAT
Lot #13 A.T. McIntosh & Co.'s Lisle Development Unit #1 located in above described Sect

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5 ~~4~~	Steel 14.98	44	44

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is 8 ft. above ground level. Pumping level 40 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	44'	44'
Limestone	56'	100'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Omer Yeoman DATE 4-21-76

IDPH 4.065
1/74 – KNB-1

4425 KINGSTON

UESTED AND MAIL ORIGINAL TO STATE DE
, STATE OFFICE BUILDING, SPRINGFIELD,
AL / WATER SURVEYS SECTION. BE SURE TO

F

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NOS
Add
15W

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-28-71

10. Property owner PARRISH CONST Well No. _____
Address LOT 11 BLK 6 Lisle Dev. #1
Driller K-K WELL License No. 92532
11. Permit No. 13581 Date 7/20/71
12. Water from LIMESTONE (Formation) 13. County DuPAGE
at depth 20 to 80 ft. Sec. 2
14. Screen: Diam. _____ in. Twp. 38N
Length: _____ ft. Slot _____ Rge. 10E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Bed 15	0	50

SHOW LOCATION IN SECTION PLAT
Lot 11 Block 6
McIntosh's
Lisle S.D. in
SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 20 ft. below casing top which is 2 ft. above ground level. Pumping level 45 ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
OVERBURDEN.	0	50
ROCK FORMATION	50	80

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Knuiem DATE 8/17/71

COUNTY No. 2135

DUPAGE 2-38N-10E

White – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

112

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 125 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven____. Drive Pipe Diam. 5 in. Depth 57 ft.
   c. Drilled X. Finished in Drift____. In Rock X:
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

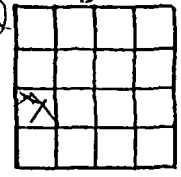
2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 75'
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 50' Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed 1-10-80
5. Permanent Pump Installed? Yes____ No X
   Manufacturer____ Type____
   Capacity____gpm. Depth of setting____ ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes____ No X
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____ No X

REMARKS:

IDPH 4.065
10-72
KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Tom Venard Well No. 1
    Address 4417 Buckley - Lot 24
    Driller Charles Fyler License No. 23
11. Permit No. 90545 Date 10-12-79
12. Water from Limestone (Formation) 13. County Du Page
    at depth 49 to 125 ft.
    Sec. 28
    Twp. 38N
    Rge. 10E
    Elev.____
14. Screen: Diam.____ in.
    Length:____ ft. Slot____



SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	A-53 15 lb.	0	57

16. Size Hole below casing: 5 in.
17. Static level 37 ft. below casing top which is +1 ft. above ground level. Pumping level 40 ft. when pumping at 12 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	12	12
Gravel	12	24
Gravel & Sand	6	30
Gravel	19	49
Limestone	76	125

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fyler DATE 1-11-80

White Copy – Ill. Dept. of Pub. Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(13)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 60 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled X. Finished in Drift____. In Rock ✓.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings		

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed 11-8-1973
5. Permanent Pump Installed? Yes X No____
   Manufacturer Barnes Type Subm.
   Capacity ____gpm. Depth of setting 45 ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____ No X

REMARKS:

IDPH 4.0065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Roy Lindahl Well No. ____
    Address 4405 Buckley
    Driller K-K Well Drilling License No. 92-533
11. Permit No. 26239 Date 10-29-1973
12. Water from Rock Formation 13. County DuPage
    at depth 20 to 60 ft.
    Sec. 2
    Twp. 38
    Rge. 10E
    Elev. ____
14. Screen: Diam. ____in.
    Length: ____ft. Slot ____

SHOW LOCATION IN SECTION PLAT

Lot 30 Block 6
A.T. McIntosh Lisle Div
Unit 1 SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	BLK # 13	0	50

16. Size Hole below casing: 5 in.
17. Static level 20 ft. below casing top which is 2 ft. above ground level. Pumping level 45 ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	50
Rock Formation	10	60

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Knuesing DATE 11-8-1973

White Copy
Ill. Dept. o... Health
Yellow Copy – ... Contractor
Blue Copy – Well Owner

INSTRUCTIONS ... DRILLERS

FILL IN ALL PERTINENT INFORMATION REQU... AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(114)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 105 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled x. Finished in Drift ____. In Rock x.
   Tubular ____. Gravel Packed ____.
   d. Grout:

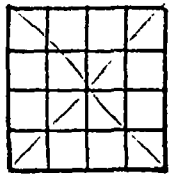
(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 40' Ft. Seepage Tile Field 75'
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50 Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes x No ____
4. Date well completed March 28, 1974
5. Permanent Pump Installed? Yes x No ____
   Manufacturer Red Jacket Type Submersible
   Capacity 10 gpm. Depth of setting 105 ft.
6. Well Top Sealed? Yes x No ____
7. Pitless Adaptor Installed? Yes x No ____
8. Well Disinfected? Yes x No ____
9. Water Sample Submitted? Yes ____ No x

REMARKS: Owner instructed to take sample.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Charles Giallombardo Well No. ____
    Address 4406 Kingston St. Lisle, Illinois
    Driller DuPage Pump Inc. License No. 92-147
11. Permit No. 28197 Date 3/19/74
12. Water from Limestone (Formation) 13. County DuPage
    at depth ____ to ____ ft.
    Sec. 2
    Twp. 38N
    Rge. 10E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____
15. Casing and Liner Pipe



Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	0	55

SHOW LOCATION IN SECTION PLAT
Lot #4, Block 6 in A.T. McIntosh + Co.'s Lisle Development Unit #1 Subd. located in above section

16. Size Hole below casing: 5 in.
17. Static level ____ ft. below casing top which is 8 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	55	55
Limestone	50	105'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Omer Yeoman DATE 3/28/74

IDPH 4.065
10/68

4401 KINGSTON

ESTED AND MAIL ORIGINAL TO STATE DE-
STATE OFFICE BUILDING, SPRINGFIELD,
L/WATER SURVEYS SECTION. BE SURE TO

L (21) 116

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-22-70

10. Property owner Glen of Glen Ellyn Well No. _____
Address Kingston & Oldham Lisle
Driller Patrick A. Liberg License No. 92-39
11. Permit No. 10160 Date 7-10-70
12. Water from Limestone (Formation) 13. County DuPage
at depth 67 to 85 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 2+
Twp. 38N
Rge. 10E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	black 15# per ft.	0	67

SHOW LOCATION IN SECTION PLAT
60' SL, 200' EL, of NE NW SW (permit)

16. Size Hole below casing: 5 in.
17. Static level 52 ft. below casing top which is 1 ft. above ground level. Pumping level 52 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	0	9
Yellow Gravel	9	63
Fine Sand	63	67
(Red Rock) Limestone	67	85

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Patrick A. Liberg DATE 7-24-70
by Vivian Sisson

COUNTY No. 1391

DUPAGE 2-38N-10E

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 125 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. 2 in. Depth 80 ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

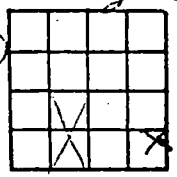
2. Distance to Nearest:
   Building 20 Ft. Seepage Tile Field 75
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50 Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No ____
4. Date well completed 8/12/74
5. Permanent Pump Installed? Yes ____ No X
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes X No ____
7. Pitless Adaptor Installed? Yes ____ No X
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes ____ No X

REMARKS:

IDPH 4.065
10-72
KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Hero Burrell Well No. 1
    Address 4403 Chelsea Dr Lisle
    Driller Charles Lefler License No. 33
11. Permit No. 21939 Date 8/7/74
12. Water from Limestone 13. County DuPage
    Formation
    at depth 80 to 125 ft.
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____
    Sec. 2
    Twp. 38N
    Rge. 10E
    Elev. ____



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53	0'	80'

SHOW LOCATION IN SECTION PLAT
Lot #2 McIntosh Subd.
~~NE SE SE~~ E/2 SW

16. Size Hole below casing: 5 in.
17. Static level 80 ft. below casing top which is +1 ft. above ground level. Pumping level 80 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	60'	60'
Sand	20'	80'
Limestone	45'	125'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Lefler DATE 10/16/74
Lockport Well & Pump

(118)

G

NO 2C
ISWS

4410 CHELSEA

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. 10941 Year 1970
11. Property owner Tom Fisher Well No. _____
Address Lot 6
Driller K-K Well Drill License No. _____
12. Water from Limestone Formation 13. County DuPage
at depth 20 to 60 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 2
Twp. 38N
Rng. 10E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
"	Bek	0	55

SHOW LOCATION IN SECTION PLAT
Lot 6 BK3 in
Lisle Dev.
Unit 1 Sub.
SW (Permit)

16. Size Hole below casing: 5 in.
17. Static level _____ ft. below casing top which is 2 ft. above ground level. Pumping level 40 ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Overburden	0	55
Rock formation	55	60
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Phil Kniesim DATE 7/7/71

DUPAGE COUNTY No. 2084 2-38N-10E

4362 IVANHOE

(119)

SWS over 1 mile from SHC

REQUESTED AND MAIL ORIGINAL TO STATE
NSUMER HEALTH PROTECTION, 535 WEST
761. DO NOT DETACH GEOLOGICAL/WATER
E PROPERTY WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 10-6-75

10. Property owner KELLOG - BENET Well No. _____
Address 1510 OGDEN DOWNERS GROVE
Driller KK WELL DRILLING License No. 102-84
11. Permit No. 41906 Date 10-8-75
12. Water from limestone (Formation) 13. County Dupage
at depth 40 to 140 ft. Sec. 2
14. Screen: Diam. _____ in. Twp. 38N
Length: _____ ft. Slot _____ Rge. 10E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk 15	0	100

SHOW LOCATION IN SECTION PLAT

Lot #8 Bl. 2
5th Ogden Ave.
Subd. W/2 SE
(permit)

16. Size Hole below casing: 5 in.
17. Static level 42 ft. below casing top which is 2 ft. above ground level. Pumping level 105 ft. when pumping at _____ gpm for _____ hours. Sub. pump set at 105'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	100	100
Limestone	40	140

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED _____ DATE _____

COUNTY No. 24332

DU PAGE

2-38N-10E

4314 IVANHOE

STATE OFFICE BUILDING, SPRINGFIELD,
./WATER SURVEYS SECTION. BE SURE TO

(A) (120)

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 10-23-73

ISWS

10. Property owner Wolf, Martin Well No. _____
Address Lot 9 5th Ogden Ave
Driller RKWeese License No. 92532
11. Permit No. 026108 Date 10/22/73
12. Water from Limestone (Formation) 13. County DuPage
at depth 40 to 140 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 2
Twp. 38N
Rge. 10E
Elev. _____

SHOW LOCATION IN SECTION PLAT
Lot 9 Blk 2,5th Ogden Ave. S.D. in SE(permit)

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk 15	0	100

16. Size Hole below casing: 5 in.
17. Static level 42 ft. below casing top which is 2 ft. above ground level. Pumping level 105 ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	100	100
Rock formation	40	140

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 10/26

COUNTY No. 3432

DUPAGE 2-38N-10E

White Copy – Ill. Dept. of Pub. Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO [illegible]ERS

FILL IN ALL PERTINENT INFORMATION REQUEST[illegible] AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(126)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 120 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth 120 ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings		

2. Distance to Nearest:
   Building 35 Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 75 Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed Apr 30 1979
5. Permanent Pump Installed? Yes X Date 4-30-79 No ____
   Manufacturer Jacuzzi Type Subm Location Well
   Capacity ____ gpm. Depth of Setting 100 Ft.
6. Well Top Sealed? Yes X No ____ Type ____
7. Pitless Adapter Installed? Yes X No ____
   Manufacturer Williams Model Number ____
   How attached to casing? Clamp on
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes X No ____
10. Pressure Tank Size 82 gal. Type Con Cure
    Location Basement
11. Water Sample Submitted? Yes ____ No X

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Leonard Malthis Well No. ____
    Address 4318 Yuanhoe Lisle
    Driller Phil Knierim License No. 102-84
11. Permit No. 846669 Date Apr. 16 - 1979
12. Water from Limestone (Formation) at depth 97 to 120 ft.
13. County DuPage
    Sec. 2
    Twp. 38N
    Rge. 10E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Galv Pipe	0	97

SHOW LOCATION IN SECTION PLAT
Lot 12 block 2 Arthur T. McIntosh & Co's 5th Ogden Ave. Subd SE
W/2 SE

16. Size Hole below casing: 5 in.
17. Static level 60 ft. below casing top which is 2 ft. above ground level. Pumping level 100 ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS 1120	DEPTH OF BOTTOM
Overburden	97	97
Limestone	23	120

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Knierim DATE 5-19-79

IDPH 4.065
1/74 – KNB-1

4520 NANKOE

TATE OFFICE BUILDING, SPRINGFIELD,
WATER SURVEYS SECTION. BE SURE TO

E

NO 9 (122)
ISWS

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-5-72

1. Property owner Caliendo Builders Well No. _____
Address Lot #14, Block #2 in A.T. McIntosh 5th Ogden Ave.
Driller K+K Well Drilling License No. 92-532
1. Permit No. 20884 Date 11/9/72
2. Water from limestone (Formation) 13. County Dupage
at depth 80 to 140 ft. Sec. 2
4. Screen: Diam. _____ in. Twp. 38N
Length: _____ ft. Slot _____ Rge. 10E
Elev. _____

5. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk #15	0	92

SHOW LOCATION IN SECTION PLAT
Lot 14 Blk 2
Ogden Ave #5
in SE (permit)

16. Size Hole below casing: 5 in.
17. Static level 80 ft. below casing top which is 2 ft. above ground level. Pumping level 50 ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	92	92
Rock formation	48	140

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED _____ DATE _____

COUNTY No. 3054

DUPAGE 2-38N-10E

White - [illegible] Copies:
Ill. [illegible] of Public Health
Yellow Copy: Well Contractor
Golden Copy: Well Owner

043-H9503[illegible]-95

(123)

Well Construction Report

(BATAVIA BRANCH:)

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

1. Type of Well
   a. Bored____ Hole Diam. 8 in. Depth 180 ft
      Buried Slab: Yes___ No___
   b. Driven____ Drive Pipe Diam.____in. Depth____ft
   c. Drilled X Finished in Drift____ In Rock X
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
BENTONITE		
SLURRY	0	96'

2. Well furnishes water for human consumption? Yes X No___
3. Date well drilled 12-8-95
4. Permanent pump installed? Yes X Date 12-14-95 No 1hp
   Manufacturer DELTA Type SUBM.
   Location WELL
   Capacity 12 gpm. Depth of setting 100 ft.
5. Well top sealed? Yes X No___ Type WELL CAP
6. Pitless adapter installed? Yes X No___
   Manufacturer WILLIAMS Model No. B50ACVS
   How attached to casing? BOLTED
7. Well disinfected? Yes X No___
8. Pump and equipment disinfected Yes X No___

IMPORTANT NOTICE

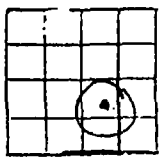
This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

IL482-0126

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller WILLIAM M. KNIERIM License No. 092-007863
10. Well Site Address 4561 IVANHOE AVE., LISLE, IL.
11. Property Owner NEIL HARRIS Well No.____
12. Permit No. H95-[redacted]320 Date Issued 9/29/95
13. Location: 08-02-401-014 County DU PAGE
    LOT 16, BLK 1, SE [illegible]-NW-SE Sec. 23
    A.T.McINTOSH & CO'S., Twp. 38N
    5th OGDEN AVE. SUBD. Rge. 10E



Show location in section plat

14. Water from ROCK at depth 100 ft to 180 ft

15. Casing and Liner Pipe

Diam.(in)	Kind and Weight	From (ft)	To (ft)
5"	PVC 200 PSI	0	96'

16. Screen: Diam.___in, Length___in, Slot Size___
17. Size hole below casing 4 3/4 in. 18. Ground Elev.____ ft msl.
19. Static level 60 ft below casing top which is 1 ft. above ground level. Pumping level 80 ft, pumping gpm for 2 hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
TOP SOIL	0	2
CLAY	2	41
SAND & GRAVEL	41	48
CLAY	48	82
SAND & GRAVEL	82	93
ROCK	93	180

Continue on separate sheet if necessary.

Signed William M. Kn[illegible] Date DEC. 21st, 1995

(124)

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DI ERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 140 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings		

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No ____
4. Date well completed 9-12-1974
5. Permanent Pump Installed? Yes X No ____
   Manufacturer Sta-Rite Type Sub m.
   Capacity ____ gpm. Depth of setting 105 ft.
6. Well Top Sealed? Yes X No ____
7. Pitless Adaptor Installed? Yes X No ____
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes ____ No X

REMARKS:

IDPH 4.065
10-72
KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner R.W. Rice (Fisher) Well No. Alk Sub.
    Address 450 Ogden Lot 23-24 5th Ogden
    Driller K-K Well Drilling License No. 92 532
11. Permit No. 32923 Date 9-10-1974
12. Water from Limestone Formation at depth 90 to 140 ft.
13. County Vermilion
    Sec. 2
    Twp. 38N
    Rge. 10E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	BLK #15	0	84

SHOW LOCATION IN SECTION PLAT
Lot 23 in 5th Ogden Ave Sub. SE

16. Size Hole below casing: 5 in.
17. Static level 80 ft. below casing top which is 2 ft. above ground level. Pumping level 105 ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	84	84
Limestone	56	140

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Knierim DATE 9-14-1974

929 MIDDLETON

STATE OFFICE BUILDING, SPRINGFIELD,
AL / WATER SURVEYS SECTION. BE SURE TO

126

No sec
Add
15 ws

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 10-11-71

10. Property owner R.A. Schmidt Well No. _____
Address Lot 4 A.T. McIntosh Unit #1
Driller K-K Weeg License No. ~~15048~~ 92532
11. Permit No. 15048 Date Oct 21 1971
12. Water from Limestone (Formation) 13. County DuPage
at depth 20 to 100 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 2
Twp. 38N
Rge. 10E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk 15	0	45

SHOW LOCATION IN SECTION PLAT
Lot 4 Blk. 5
A.T. McIntosh
Unit # 1 in
SW (permit)

16. Size Hole below casing: 5 in.
17. Static level 20 ft. below casing top which is 2 ft. above ground level. Pumping level 60 ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	~~THICKNESS~~ TOP	DEPTH OF BOTTOM
Overburden	0	45
Rock formation	45	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Kneisim DATE 10/26/71

COUNTY No. 2269

DUPAGE 2-38N-10E

(127)

ISWS
NO SEC
Ad

FILE BUILDING, SPRINGFIELD,
SURVEYS SECTION. BE SURE TO

D

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

Completed 2-8-71

0.16 LACEY

10. Dept. Mines and Minerals permit No. 11560 Year 71
11. Property owner PARK LANE REALTY Well No. _____
Address LOT 28 LACEY RD
Driller K-K WELL DRILL License No. 92 532
12. Water from LIMESTONE Formation 13. County DU PAGE
at depth 40 to 80 ft. Sec. 2
14. Screen: Diam. _____ in. Twp. 38N
Length: _____ ft. Slot _____ Rng. 10E
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk #15	0	46

SHOW LOCATION IN SECTION PLAT
Lot 28 Blk 5
Lisle Dev. # 1
in SW SW
(permit)

16. Size Hole below casing: 5 in.
17. Static level 40 ft. below casing top which is 2 ft. above ground level. Pumping level ~~[illegible]~~ ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	46
Rock formation	46	80
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Phil Kneiem DATE 2/12/71

COUNTY No. 1475

DUPAGE 2-38N-10E

White & k Copies:
Ill. D. of Public Health
Yellow Copy: Well Contractor
Golden Copy: Well Owner

(129)

Well Construction Report

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

1. Type of Well
   a. Bored____ Hole Diam. 5 in. Depth 145 ft
      Buried Slab: Yes___ No___
   b. Driven____ Drive Pipe Diam.____in. Depth____ft
   c. Drilled ✓ Finished in Drift____ In Rock ✓
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Well furnishes water for human consumption? Yes ✓ No___
3. Date well drilled 3/26/90
4. Permanent pump installed? Yes ✓ Date 3/27/90 No___
   Manufacturer Delta Type Submersible
   Location well
   Capacity 10 gpm. Depth of setting 80' ft.
5. Well top sealed? Yes ✓ No___ Type
6. Pitless adapter installed? Yes ✓ No___
   Manufacturer Williams Model No. B50AC
   How attached to casing? screwed on
7. Well disinfected? Yes ✓ No___
8. Pump and equipment disinfected Yes ✓ No___

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

IL482-0126

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller DuPage Pump Inc. License No. 102-002482
10. Well Site Address 612 Short St., Lisle
11. Property Owner William Orr Well No. —
12. Permit No. 016183 Date Issued 11/30/89
13. Location: County DuPage
    Sec. 11.4 f
    Twp. 38N
    Rge. 10E

Show location in section plat

NW, SW, NE

14. Water from limestone at depth 145 ft to____ft

15. Casing and Liner Pipe

Diam.(in)	Kind and Weight	From (ft)	To (ft)
5	Steel 14.98	0	65'

16. Screen: Diam. 5 in, Length___in, Slot Size___
17. Size hole below casing____in. 18. Ground Elev.____ ft msl.
19. Static level___ft below casing top which is 8 ft. above ground level. Pumping level 40 ft, pumping gpm for 2 hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
Drift	65'	65'
Limestone	80'	145'

Continue on separate sheet if necessary.

Signed Alan Senffner Date 4/2/90

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

IN: 'CTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 145 ft.
   Curb material _____. Buried Slab: Yes_____ No_____
   b. Driven _____. Drive Pipe Diam. 5 in. Depth 57 ft.
   c. Drilled X. Finished in Drift_____. In Rock X.
   Tubular _____. Gravel Packed_____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 75'
   Cess Pool_____ Sewer (non Cast iron)_____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank 50' Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Well furnishes water for human consumption? Yes X No_____
4. Date well completed 8-21-81
5. Permanent Pump Installed? Yes___ Date _____ No X
   Manufacturer_____ Type _____ Location _____
   Capacity_____gpm. Depth of Setting _____ Ft.
6. Well Top Sealed? Yes X No_____ Type Vermin-Proof (Wms.)
7. Pitless Adapter Installed? Yes_____ No_____
   Manufacturer _____ Model Number _____
   How attached to casing?_____
8. Well Disinfected? Yes X No _____
9. Pump and Equipment Disinfected? Yes_____ No _____
10. Pressure Tank Size_____gal. Type _____
    Location _____
11. Water Sample Submitted? Yes_____ No X
REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Tom Gregor Well No. 1
    Address 596 Front St., Lisle, IL.
    Driller Charles Fykes License No. 23
11. Permit No. 100932 Date 8-14-81
12. Water from Limestone (Formation) 13. County DuPage
    at depth 57 to 145 ft. Sec. 11, bg
    14. Screen: Diam._____in. Twp. 38N
    Length: _____ft. Slot _____ Rge. 10E
    Elev. _____

	X		
		X	

SHOW LOCATION IN SECTION PLAT
SW NE NW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	A-53 15 lbs.	0	57

16. Size Hole below casing: 5 in.
17. Static level 40 ft. below casing top which is +1 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	30'	30'
Gravel	27'	57'
Limestone	88'	145'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE 1-25-83

130

IDPH 4.065
1/74 – KNB-1
(59571—12½M Sets—6-74)

I ... ot. of Public Health
Ye... ...opy: Well Contractor
Golden Copy: Well Owner

045-H940390-95

Well Construction Report

(BATAVIA BRANCH:)

580 FRONT ST.

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well
   a. Bored____ Hole Diam. 8 in. Depth 180 ft
      Buried Slab: Yes___ No___
   b. Driven____ Drive Pipe Diam.____in. Depth____ft
   c. Drilled X Finished in Drift____ In Rock X
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
BENTONITE		
SLURRY	0	56'

2. Well furnishes water for human consumption? Yes X No___
3. Date well drilled 3-29-95
4. Permanent pump installed? Yes X Date 3-31-95 No 1hp
   Manufacturer DELTA Type SUBM.
   Location WELL
   Capacity 12 gpm. Depth of setting 80 ft.
5. Well top sealed? Yes X No___ Type WELL CAP
6. Pitless adapter installed? Yes X No___
   Manufacturer WILLIAMS Model No. B50ACVS

9. Driller PHIL KNIERIM License No. 102-000841
10. Well Site Address 22 W 290 FRONT ST., LISLE, IL.
11. Property Owner MIKOLS CONSTRUCTION Well No.____
12. Permit No. H94-0390 Date Issued 12-13-94
13. Location: 08-11-202-014 County DU PAGE
    LOT 2, UN 5, ~~NW~~ NE-SW-NE Sec. 11.3F
    YACKLEY'S DIV. OF LOT 1, Twp. 38N
    A.T. MC INTOSH & CO.LISLE CNTRYSIDE Rge. 10E

Show location in section plat

14. Water from ROCK at depth 95 ft to 180 ft

15. Casing and Liner Pipe

Diam.(in)	Kind and Weight	From (ft)	To (ft)
5"	PVC 200 PSI	0	56'

16. Screen: Diam.___in, Length___in, Slot Size___
17. Size hole below casing 4 3/4 in. 18. Ground Elev.____ ft msl.
19. Static level 40 ft below casing top which is 1 ft. above ground level. Pumping level 60 ft, pumping gpm for 2 hours.
20. Earth Materials Passed Through | Depth of | Depth of

131

(132)

584 FRONT ST

TATE OFFICE BUILDING, SPRINGFIELD,
WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 12-28-73 (Builder)

). Property owner Ralph Yackley Well No. _____
Address 22 W 300 Front St.
i) Driller DuPage Pump Inc. License No. 92-147
1. Permit No. 26970 Date 12/14/73
2. Water from Limestone (Formation) 13. County DuPage
at depth _____ to _____ ft. Sec. 11
4. Screen: Diam. _____ in. Twp. 38N
Length: _____ ft. Slot _____ Rge. 10E
Elev. _____

		X	

.5. Casing and Liner Pipe

Diam (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Steel 14.98	0	57'

SHOW LOCATION IN SECTION PLAT
Lot 1 Countryside # 5 in SE NW
(permit)

16. Size Hole below casing: 5 in.
17. Static level _____ ft. below casing top which is 8 ft. above ground level. Pumping level 50' ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	57'	57'
Limestone	58'	115'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Owen Yeomans DATE 12/31/73

COUNTY No. 23573

DUPAGE 11-38N-10E

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUES AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(133)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 115 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven _____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled X. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

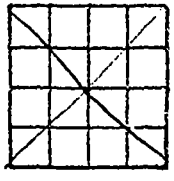
2. Distance to Nearest:
   Building 40' Ft. Seepage Tile Field 75'
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank 50' Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes X No _____
4. Date well completed 12/26/73
5. Permanent Pump Installed? Yes X No _____
   Manufacturer Barnes Type Submersible
   Capacity 10 gpm. Depth of setting 60' ft.
6. Well Top Sealed? Yes X No _____
7. Pitless Adaptor Installed? Yes X No _____
8. Well Disinfected? Yes X No _____
9. Water Sample Submitted? Yes _____ No X

REMARKS: Owner Instructed to take sample.

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner John Gabris Well No. _____
    Address 586 Front Street
    Driller DuPage Pump Inc. License No. 92-147
11. Permit No. 27123 Date 1/4/74
12. Water from Limestone (Formation) 13. County DuPage
    at depth ____ to ____ft.
    Sec. 11
    Twp. 38N
    Rge. 10E
    Elev. _____
14. Screen: Diam. _____in.
    Length: ____ft. Slot _____



SHOW LOCATION IN SECTION PLAT
Lot 2 A.T. McIntosh
Co's Lisle Countryside
Unit 5

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	58'	58'

16. Size Hole below casing: 5 in.
17. Static level ____ft. below casing top which is 8 ft. above ground level. Pumping level 50 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	58'	58'
Limestone	57'	115'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Owner Yeoman DATE 12/26/73

White C
Ill. D. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTION[illegible] DRILLERS

FILL IN ALL PERTINENT INFORMATION [illegible]ESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 125 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. 5 in. Depth 80 ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 20 Ft. Seepage Tile Field 75'
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50' Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No ____
4. Date well completed 10-18-72
5. Permanent Pump Installed? Yes ____ No X
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes X No ____
7. Pitless Adaptor Installed? Yes ____ No X
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes ____ No X

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Frank Builder Well No. 1
    Address 599 A Front St - Lisle
    Driller Rockport Well & Pump License No. 180
11. Permit No. 20301 Date 10-[illegible]
12. Water from Limestone (Formation) at depth 80 to 125 ft.
13. County Du Page
    Sec. 11
    Twp. 38N
    Rge. 10E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____

SHOW LOCATION IN SECTION PLAT
Lot 13 Arthur T. McIntosh
Lisle Country Side Unit 5 Sub
NE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs	0'	80'

16. Size Hole below casing: 5 in.
17. Static level 60 ft. below casing top which is +1 ft. above ground level. Pumping level 60 ft. when pumping at 0 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	2'	2'
Clay	23'	25'
Gravel	30'	55'
Clay & Gravel	25'	80'
Limestone	45'	125'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles [illegible] DATE 10-25-72

134

White – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(135)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 125 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven____. Drive Pipe Diam. 5 in. Depth 55 ft.
   c. Drilled X. Finished in Drift____. In Rock X.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 25' Ft. Seepage Tile Field 75'
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 50' Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed 11/3/76
5. Permanent Pump Installed? Yes X No____
   Manufacturer Barnes Type Submersible
   Capacity 10 gpm. Depth of setting 80 ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____ No X

REMARKS:

IDPH 4.065
10-72
KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Tom Venard Well No. 1
    Address 5003 Westview - Lot #41
    Driller Charles Fykes License No. 102-23
11. Permit No. 54185 Date 10/29/76
12. Water from Limestone (Formation) 13. County DuPage
    at depth 52 to 125 ft. Sec. 11
    14. Screen: Diam.____ in. Twp. 38N
    Length:____ ft. Slot____ Rge. 10E
    Elev.____

SHOW LOCATION IN SECTION PLAT
Lot 41 McIntosh Subd
SWNE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0	55'

16. Size Hole below casing: 5 in.
17. Static level 50 ft. below casing top which is +1 ft. above ground level. Pumping level 70 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	30'	30'
Gravel & Boulders	22'	52'
Limestone	73'	125'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE 9/19/79

White Copy
Ill. Dept. Public Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTIONS DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(136)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 175 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. 5 in. Depth 105 ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 20' Ft. Seepage Tile Field 75'
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50' Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No ____
4. Date well completed 6-24-71
5. Permanent Pump Installed? Yes ____ No X
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes X No ____
7. Pitless Adaptor Installed? Yes ____ No X
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes ____ No X

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner TOM VENARD Well No. 1
    Address 5011 WESTVIEW - LISLE
    Driller LOCKPORT WELL + PUMP License No. 180
11. Permit No. 12358 Date 4-22-71
12. Water from LIMESTONE Formation at depth 105 to 175 ft.
13. County DU PAGE
    Sec. 11
    Twp. 38N
    Rge. 10E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____

SHOW LOCATION IN SECTION PLAT
W/2 SE

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0'	105'

16. Size Hole below casing: 5 in.
17. Static level 105 ft. below casing top which is +1 ft. above ground level. Pumping level 105 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
SURFACE	1'	1'
CLAY	59'	60'
GRAVEL	45'	105'
BROKEN LIME	70'	175'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Sykes DATE 6-29-71

EQUESTED AND MAIL ORIGINAL TO STATE
U OF ENVIRONMENTAL HEALTH, 535 WEST
1. DO NOT DETACH GEOLOGICAL/WATER
PROPER WELL LOCATION.

137

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed July 16, 1974

10. Property owner Hirhart Const. Well No. _____
Address 224 W 311 Reidy Road
Driller R-K Well Drilling License No. 92-532
11. Permit No. 30671 Date 5-29-1974
12. Water from Limestone (Formation) 13. County Du Page
at depth 35 to 100 ft.
14. Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 11
Twp. 38N
Rge. 10E
Elev. _____

15. Casing and Liner Pipe

D (in.)	Kind and Weight	From (Ft.)	To (Ft.)
	BIK # 15	0	75

SHOW LOCATION IN SECTION PLAT
Lot#22 Lisle Countryside #5 Subd.
(permit) SW SW NE

16. Size Hole below casing: 5 in.
17. Static level 125 ft. below casing top which is 2 ft. above ground level. Pumping level 42 ft. when pumping at _____ gpm for _____ hours. Submersible pump set at 42'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	75	75
Limestone	25	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Knuesin DATE 7-19-74

COUNTY No. 23833

DUPAGE 11-38N-10E

(139)

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO D ERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 100 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ____. In Rock ✓.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings	0	80'

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field 75
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50+ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes ✓ No ____
4. Date well completed March 10, 1982
5. Permanent Pump Installed? Yes ✓ Date 3-10-82 No ____
   Manufacturer Teel Type Submer Location in well
   Capacity 12 gpm. Depth of Setting 80 Ft.
6. Well Top Sealed? Yes ✓ No ____ Type Capped
7. Pitless Adapter Installed? Yes ✓ No ____
   Manufacturer Teel (owners) Model Number from old well
   How attached to casing? drilled
8. Well Disinfected? Yes ✓ No ____
9. Pump and Equipment Disinfected? Yes ✓ No ____
10. Pressure Tank Size N/A gal. Type Sears
    Location ____
11. Water Sample Submitted? Yes ____ No ✓

REMARKS:
Owner is responsible

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Richard Ponash Well No. DuPage Health
    Address 717 Front St - Lisle, Il.
    Driller Phil Knierim License No. 102-84
11. Permit No. 102753 Date March 5, 1982
12. Water from Rock (Formation) at depth ____ to 100' ft.
13. County DuPage
    Sec. 11.61
    Twp. 38N
    Rge. 10E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____

SHOW LOCATION IN SECTION PLAT
Lot 39 A.T. McIntosh's Addt
NW SE NW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	#15 Black	0	80'

16. Size Hole below casing: 4½ in.
17. Static level 50 ft. below casing top which is 1 ft. above ground level. Pumping level 70 ft. when pumping at 12 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	0	70'
Sand Gravel	70	80'
Rock	80'	100'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE April 15, 1982

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

(140)

INSTRUCTIONS TO DR S

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 145 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven _____. Drive Pipe Diam. 5 in. Depth 77 ft.
   c. Drilled X. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 75'
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank 50' Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Well furnishes water for human consumption? Yes X No____
4. Date well completed 9-24-86
5. Permanent Pump Installed? Yes____ Date _____ No X
   Manufacturer _____ Type _____ Location _____
   Capacity _____ gpm. Depth of Setting _____ Ft.
6. Well Top Sealed? Yes X No____ Type ~~Vermin-Proof~~ (Wms.)
7. Pitless Adapter Installed? Yes____ No____
   Manufacturer _____ Model Number _____
   How attached to casing? _____
8. Well Disinfected? Yes X No____
9. Pump and Equipment Disinfected? Yes____ No____
10. Pressure Tank Size _____ gal. Type _____
    Location _____
11. Water Sample Submitted? Yes____ No X

REMARKS: County #27513

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Dan Stalzer Well No. 1
    Address Lot #42; 649 Front St., Lisle, IL
    Driller Charles Fykes License No. 102-23
11. Permit No. 127044 Date 9-23-86
12. Water from ~~Limestone~~ Formation 13. County DuPage
    at depth 76 to 145 ft. Sec. 11.7f
    14. Screen: Diam. _____ in. Twp. 38N
    Length: _____ ft. Slot _____ Rge. 10E
    Elev. _____

X			
		X	

SHOW LOCATION IN SECTION PLAT
Lot #42
NE SW NW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs	0	77

16. Size Hole below casing: 5 in.
17. Static level 80 ft. below casing top which is +1 ft. above ground level. Pumping level 110 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	7'	7'
Clay	32'	39'
Sand & Gravel	37'	76'
Limestone	69'	145'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE Oct 2, 1986

IDPH 4.065
1/74 – KNB-1

141

19

LOG OF WATER WELL

Property owner Mr. Young Well No. 84

Drilled by N. Arnt + Son Year 1959

Formations passed through	Thickness	Depth of Bottom
Yellow clay + course grav	17	17
Blue clay + gravel	21	38
Yellow clay + gravel	23	61
Gravel (water)	10	71
Limestone	12	83
[illegible] from Naperville Office - April 22, 1961		
Lot 44 McIntosh & Co.		
Addition to Lisle		
Health Permit # A-03580		

COUNTY No. 747

[Continue on back if necessary]

Finished in Limestone at 71 to 83 ft.

Cased with 5 inch Black casing from 0 to 71 ft.

and 5 inch Limestone from 71 to 83 ft.

Size hole below casing 5 inch. Static level from surf. 48 ft.

Tested capacity _____ gal. per min. Temperature 52 °F.

Water lowered to _____ ft. _____ in. in _____ hrs. _____ min.

450' W. and 1100' N. of SE corner of 1/2 Sec.

Length of test _____ hrs. _____ min. Screen _____

Slot _____ Diam. _____ Length _____ Bottom set at _____ ft.

[Show location in Section Plat]

Township name Lisle Elev. _____ Sec. NW11

Description of location 633 Front St. Twp. 38N

Lisle, Ill. Rge. 10E

Signed [illegible] County DuPage

DUPAGE 11-38N-10E

Copy for Illinois State Geological Survey Index:

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(142)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 160 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven _____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled X. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30' Ft. Seepage Tile Field 75'
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank 50' Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes X No _____
4. Date well completed 9-21-73
5. Permanent Pump Installed? Yes X No _____
   Manufacturer Barnes Type _____
   Capacity 10 gpm. Depth of setting 120 ft.
6. Well Top Sealed? Yes X No _____
7. Pitless Adaptor Installed? Yes X No _____
8. Well Disinfected? Yes X No _____
9. Water Sample Submitted? Yes _____ No X

REMARKS: Owner instructed to take sample.

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner ~~Pat Conroy Bldrs.~~ Well No. _____
    Address 599 Reidy Road, Lisle, Illinois
    Driller DuPage Pump, Inc. License No. 92-147
11. Permit No. 25115 Date Aug. 28, 1973
12. Water from Limestone Formation 13. County DuPage
    at depth ____ to ____ft. Sec. 10
    Twp. 38N
    Rge. 10E
    Elev. _____
14. Screen: Diam. _____in.
    Length: ____ft. Slot _____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Steel 14.98	0'	96'

SHOW LOCATION IN SECTION PLAT

Lot #1 Block 4
A.T. McIntosh Lisle
Countryside Unit #1 Subd.
located in the above described section

16. Size Hole below casing: 5 in.
17. Static level ____ft. below casing top which is 8 ft. above ground level. Pumping level 100 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Drift	96'	96'
Limestone	64'	160'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED [signature] DATE 9-23-73

(143)

600 Hitchcock

QUESTED AND MAIL ORIGINAL TO STATE DE-
STATE OFFICE BUILDING, SPRINGFIELD,
CAL / WATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-10-72

10. Property owner Voelker Well No. _____
Address Lot 28 Lisle Country side
Driller KK Well License No. 92532
11. Permit No. 48730 Date 7/7/72
12. Water from Limestone (Formation) 13. County DuPage
at depth 60 to 180 ft. Sec. 11
14. Screen: Diam. _____ in. Twp. 38n
Length: _____ ft. Slot _____ Rge. 10e
Elev. _____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
[illegible]	Blk 15	0	120

SHOW LOCATION IN SECTION PLAT
Lot 28 BLk 4 LisleCountry-side # 1 in NE (permit)

16. Size Hole below casing: 5 in.
17. Static level 62 ft. below casing top, which is 2 ft. above ground level. Pumping level 180 ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	120	120
Rock formation	60	180

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIG. Karl Kreim DATE 7/27

COUNTY No. 2902

DUPAGE 11-38N-10E

(144)

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 160 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven _____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled X. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

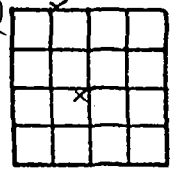
(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings	0	140

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field 75
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank 50 Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Well furnishes water for human consumption? Yes X No____
4. Date well completed 8-6-80
5. Permanent Pump Installed? Yes X Date 8-7-80 No____
   Manufacturer Barnes Type Subm. Location Well
   Capacity 20 gpm. Depth of Setting 140 Ft.
6. Well Top Sealed? Yes X No____ Type Cap
7. Pitless Adapter Installed? Yes X No____
   Manufacturer Martinson Model Number _____
   How attached to casing? Clamp on
8. Well Disinfected? Yes X No____
9. Pump and Equipment Disinfected? Yes X No____
10. Pressure Tank Size 42 gal. Type Con Aire
    Location Basement
11. Water Sample Submitted? Yes X No____

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Elverda Phillips Well No. _____
    Address 640 Gamble Drive, Lisle, Il. 60532
    Driller Phil Knierim License No. 102-84
11. Permit No. 95186 Date 7-30-86
12. Water from Limestone (Formation) 13. County Du Page
    at depth 142 to 160 ft. Sec. 11.5d
    14. Screen: Diam. _____in. Twp. 38N
    Length: ____ft. Slot _____ Rge. 10E
    Elev. _____



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Black 15 lb.	0	140

SHOW LOCATION IN SECTION PLAT
Lot 23 McIntosh Lisle
Countryside # 3 Subd
NE NE SW

16. Size Hole below casing: 4¾ in.
17. Static level 100 ft. below casing top which is 1 ft. above ground level. Pumping level 140 ft. when pumping at 20 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top soil	0	6
Clay	7	89
Sand and gravel	90	140
Limestone	141	160

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Knierim DATE 8-15-80

IDPH 4.065
1/74 – KNB-1

145

LOG OF WATER WELL

Property owner Andrew Yender Well No. 31

Drilled by Arnt & Son Year 1958

Formations passed through	Thickness	Depth of Bottom
yellow clay	15'	15'
blue clay	5'	20'
gravel	7'	27'
blue clay	80'	107'
sandstone	8'	115'
cement gravel	21'	136'
limestone	29'	165'

COUNTY No. 213

Received from Du Page County Health Department.

[Continue on back if necessary]

Finished in limestone at 136' to 165 ft.

Cased with 5 inch black iron from 0 to 136 ft.

and 5 inch limestone from 136 to 165 ft.

Size hole below casing 5 inch. Static level from surf. 120 ft.

Tested capacity ---- gal. per min. Temperature 51 °F.

Water lowered to — ft. — in. in — hrs. — min.

Length of test --- hrs. — min. Screen —

Slot — Diam. — Length — Bottom set at — ft.

[Show location in Section Plat]

Township name 365' S. of N. line and 930' W. of E. line of 1/4 Sec. Elev. ~~[illegible]~~ 775± TM

Description of location 716 Gamble Dr.

Lisle, Ill.

Sec. 11 [redacted]

Twp. 38N

Rge. 10E

Signed J. Young County Du Page

Copy for Illinois State Geological Survey Index: Dup. 38N-10E-11.6d,

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

146

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 165 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven____. Drive Pipe Diam. 5 in. Depth 120 ft.
   c. Drilled X. Finished in Drift____. In Rock X.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 35 Ft. Seepage Tile Field 75'
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 50 Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed 8-24-76
5. Permanent Pump Installed? Yes X No____
   Manufacturer Barnes Type Submersible
   Capacity 10 gpm. Depth of setting 120 ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____ No X

REMARKS:

IDPH 4.065
10-72
KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Tom Venard Well No. 1
    Address Lot #1 - 741 Hitchcock St.
    Driller Charles Fykes License No. 102-23
11. Permit No. 50366 Date 7-30-76
12. Water from Limestone (Formation) at depth 120 to 165 ft.
13. County DuPage
    Sec. 11, 12
    Twp. 38N
    Rge. 10E
    Elev.____
14. Screen: Diam.____ in.
    Length:____ ft. Slot____

X			

SHOW LOCATION IN SECTION PLAT
NE NW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0	120

16. Size Hole below casing: 5 in.
17. Static level 100 ft. below casing top which is +1 ft. above ground level. Pumping level 100 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	60'	60'
Hard pan gravel	10'	70'
Clay and boulders	35'	105'
Hard pan gravel	10'	115'
Gravel	5'	120'
Limestone	45'	165'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE 9-25-79

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO ERS

FILL IN ALL PERTINENT INFORMATION REQUES AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(147)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 165 ft.
   Curb material____. Buried Slab: Yes____ No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift____. In Rock X.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 75'
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 50' Barnyard____
   Leaching Pit____ Manure Pile____
3. Well furnishes water for human consumption? Yes X No____
4. Date well completed 11-5-80
5. Permanent Pump Installed? Yes____ Date____ No X
   Manufacturer____ Type____ Location____
   Capacity____gpm. Depth of Setting____Ft.
6. Well Top Sealed? Yes X No____ Type Williams
7. Pitless Adapter Installed? Yes____ No____
   Manufacturer____ Model Number____
   How attached to casing?____
8. Well Disinfected? Yes X No____
9. Pump and Equipment Disinfected? Yes____ No____
10. Pressure Tank Size____gal. Type____
    Location____
11. Water Sample Submitted? Yes____ No X

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Thamas Venard Well No. 1
    Address Lot # 11 - 733 Hitchcock
    Driller Charles Fykes License No. 23
11. Permit No. 96709 Date 10-21-80
12. Water from Limestone (Formation) 13. County DuPage
    at depth 126 to 165 ft. Sec. 11, 8e
    Twp. 38 N
    Rge. 10 E
    Elev.____
14. Screen: Diam.____in.
    Length:____ft. Slot____

X			
X			

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 Lbs.	0	126'

SHOW LOCATION IN SECTION PLAT
Lot 11, SWSWNW

16. Size Hole below casing: 5 in.
17. Static level 105 ft. below casing top which is +1 ft. above ground level. Pumping level 125 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	12'	12'
Boulders	18'	30'
Gravel	96'	126'
Limestone	39'	165'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE 9-27-82

IDPH 4,065
1/74 – KNB-1

Whit. py—
Ill. Dept. of Public Health
Yellow Copy—Well Contractor
Blue Copy—Well Owner

INSTRUC. TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(148)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 165 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. 5 in. Depth 123 ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 75'
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50' Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed 2-3-83
5. Permanent Pump Installed? Yes ____ Date ____ No X
   Manufacturer ____ Type ____ Location ____
   Capacity ____ gpm. Depth of Setting ____ Ft.
6. Well Top Sealed? Yes X No ____ Type Vermin-Proof (Wms.)
7. Pitless Adapter Installed? Yes ____ No ____
   Manufacturer ____ Model Number ____
   How attached to casing? ____
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes ____ No ____
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No X

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Francis H. Anderson Well No. 1
    Address Lot #9, 717 Hitchcock, Lisle, IL
    Driller Charles Fykes License No. 23
11. Permit No. 106117 Date 1-27-83
12. Water from Limestone (Formation) 13. County DuPage
    at depth 123 to 165 ft.
    Sec. 11.8e
    Twp. 38N
    Rge. 10E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____

x			
X			

SHOW LOCATION IN SECTION PLAT
Lot 9 SWSW NW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0	123'

16. Size Hole below casing: 5 in.
17. Static level 20 ft. below casing top which is +1 ft. above ground level. Pumping level 100 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	3'	3'
Clay	53'	56'
Gravel and clay	67'	123'
Limestone	42'	165'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE 2-16-83

IDPH 4.065
1/74 — KNB-1
(59571—12½M Sets—6-74)

White Copy — Ill. Dept. of Health
Yellow Copy — Well Contractor
Blue Copy — Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUIRED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67 (151)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5" in. Depth 118 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven _____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled X. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 25 Ft. Seepage Tile Field —
   Cess Pool — Sewer (non Cast iron) —
   Privy — Sewer (Cast iron) 60
   Septic Tank — Barnyard —
   Leaching Pit — Manure Pile —
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed 10-16-68
5. Permanent Pump Installed? Yes X No____
   Manufacturer Aermotor Type Submer.
   Capacity 10 gpm. Depth of setting 90 ft.
6. Well Top Sealed? Yes____ No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes X No____

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. 6173 Year 1968
11. Property owner Kettell Const. Co. Well No.____
    Address 900 Rudy Rd, Lisle, Ill.
    Driller Edward Sisson License No. 92-48
12. Water from Limestone Formation
    at depth 85 to 115 ft.
13. County DuPage
    Sec. 16 8b
    Twp. 38N
    Rng. 10E
    Elev.____
14. Screen: Diam. ____in.
    Length: ____ft. Slot _____

SHOW LOCATION IN SECTION PLAT
SW SW NW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	Black Casing		
	15# Per Foot	0	85
	15lbs.		

16. Size Hole below casing: 5" in.
17. Static level 63 ft. below casing top which is 1 ft. above ground level. Pumping level 63 ft. when pumping at 10 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Yellow Clay	0	2
Black dirt	2	3
Clayey Sand	3	10
Boulders Gravel-Sand	10	15
Sand	15	45
Coarse Sand	45	75
Fine Sand	75	85
Limestone	85	118
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Edward Sisson DATE 10/23/68
By: Helen Bird

STED AND MAIL ORIGINAL TO STATE
ENVIRONMENTAL HEALTH, 535 WEST
O NOT DETACH GEOLOGICAL/WATER
PE WELL LOCATION.

5006

Kingston

(153)

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-9-74

Property owner Kellog Benet Well No. _____

Address Lot 1 - Blk 5 Center

Driller K-K Well Drilling License No. 92-530

Permit No. 29711 Date 5-14-1974

. Water from Limestone (Formation) 13. County Du Page

at depth 70 to 140 ft. Sec. 11

. Screen: Diam. _____ in. Twp. 38N

Length: _____ ft. Slot _____ Rge. 10E

Elev. _____

5. Casing and Liner Pipe

Diam.	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk # 15	0	84

SHOW LOCATION IN SECTION PLAT
Lot 1 Blk 5
Lisle Country-side # 1, NW
(permit)

16. Size Hole below casing: 5 in.

17. Static level 40 ft. below casing top which is 2 ft. above ground level. Pumping level 84 ft. when pumping at _____ gpm for _____ hours. Submersible pump set at 84'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
overburden	84	84
Limestone	56	140

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Knierim DATE 7-13-1974

COUNTY No. 23744

DUPAGE 11-38N-10E

(154)

812 Hitchcock

:D AND MAIL ORIGINAL TO STATE DE-
ATE OFFICE BUILDING, SPRINGFIELD,
/ATER SURVEYS SECTION. BE SURE TO

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 8-21-72

Property owner R. Kraling Well No. _____

Address Lot 20 Lisle Countryside

Driller KK Well License No. 92532

Permit No. 19535 Date 8/17/72

Water from Limestone Formation 13. County DuPage

at depth 88 to 160 ft. Sec. 11

. Screen: Diam. _____ in. Twp. 38N

Length: _____ ft. Slot _____ Rge. 10E

Elev. _____

. Casing and Liner Pipe

Diam.	Kind and Weight	From (Ft.)	To (Ft.)
5	Blk 15	0	103

SHOW LOCATION IN SECTION PLAT

Lot 20 Lisle Countryside #1 in SW (permit)

6. Size Hole below casing: 5 in.

7. Static level 82 ft. below casing top which is 2 ft. above ground level. Pumping level 130 ft. when pumping at _____ gpm for _____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	103	103
Rock formation	57	160

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Phil Kniesem DATE 8/25

COUNTY No. 2927...

DUPAGE 11-38N-10E

White & Ill. D	Copies: of Public Health
Yellow Copy:	Well Contractor
Golden Copy:	Well Owner

(158)

Well Construction Report

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

JAN 1990 Div. of Environ. Health

9. Driller Charles Fykes License No. 102-000239
10. Well Site Address 829 Gamble LIsle, IL
11. Property Owner Thomas Venard Well No. 1
12. Permit No. 013977 Date Issued 8-21-89
Location: Lot 5 - McIntosh Unit 3 County DuPage
Sec. 11.6d
Twp. 38N
Rge. 10E

		X	
	X		

Show location in section plat

NW, NE, SW

1. Type of Well
   a. Bored____ Hole Diam. 5 in. Depth 165 ft
   Buried Slab: Yes___ No___
   b. Driven____ Drive Pipe Diam. 5 in. Depth 111 ft
   c. Drilled x Finished in Drift____ In Rock x
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

14. Water from Limestone at depth 111 ft to 165 ft

15. Casing and Liner Pipe

Diam.(in)	Kind and Weight	From (ft)	To (ft)
5	A-53 15 lbs	0	111

2. Well furnishes water for human consumption? Yes x No___
3. Date well drilled 8-30-89
4. Permanent pump installed? Yes ___ Date_____ No x
Manufacturer_____ Type_____
Location_____
Capacity _____gpm. Depth of setting_____ft.
5. Well top sealed? Yes x No___ Type Vermin-Proof (Wms.)
6. Pitless adapter installed? Yes___ No x
Manufacturer_____ Model No._____
How attached to casing?_____
7. Well disinfected? Yes x No___
8. Pump and equipment disinfected Yes___ No___

16. Screen: Diam.___in, Length___in, Slot Size___
17. Size hole below casing 5 in. 18. Ground Elev._____ ft msl.
19. Static level 80 ft below casing top which is +1 ft. above ground level. Pumping level 95 ft, pumping gpm for 1 hours.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
Clay	0	30
Gravel	30	60
Clay	60	80
Gravel	80	108
Limestone	108	165

Continue on separate sheet if necessary.

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

Signed Charles Fykes Date 1-26-90

IL482-0126

(159)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 160 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven X. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ____. Finished in Drift ____. In Rock ____.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
Cuttings		

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No ____
4. Date well completed 1/28/71
5. Permanent Pump Installed? Yes X No ____
   Manufacturer Peda Type Sub
   Capacity ____ gpm. Depth of setting 60 ft.
6. Well Top Sealed? Yes X No ____
7. Pitless Adaptor Installed? Yes X No ____
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes ____ No X

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. 11636 Year 1971
11. Property owner A Weller Well No. ____
    Address 807 Gambler Lot 3 [illegible]
    Driller K-K Well Drilling License No. [illegible]
12. Water from Limestone (Formation) 13. County Dupage
    at depth 115 to 160 ft. Sec. 11
14. Screen: Diam. ____ in. Twp. 38N
    Length: ____ ft. Slot ____ Rng. 10E
    Elev. ____

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Gals		

SHOW LOCATION IN SECTION PLAT
Lot 3 in [illegible] [illegible] [illegible] in the W/2

16. Size Hole below casing: 5 in.
17. Static level 60 ft. below casing top which is 2 ft. above ground level. Pumping level ____ ft. when pumping at ____ gpm for ____ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	115
Rock formation	115	160
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Phil Kneeson DATE 2/8/71

(160)

✓ X

LOG OF WATER WELL

Property owner Andrew Yender Well No. 33

Drilled by Arnt & Son Year 1959

Formations passed through	Thickness	Depth of Bottom
Topsoil	2'	2'
Yellow Clay	15'	17'
Blue Clay	113'	130'
Gravel	8'	138'
Limestone	32'	170'
Received from DuPage County Health Department		9-22-59

[Continue on back if necessary]

Finished in Limestone at 138' to 170' ft.

Cased with 5 inch Black Iron from 0 to 0-138' ft.

and 5 inch limestone from 138 to 170 ft.

Size hole below casing 5 inch. Static level from surf. 125 ft.

Tested capacity — gal. per min. Temperature 51 °F.

Water lowered to — ft. — in. in — hrs. — min.

Length of test — hrs. — min. Screen —

750' W. of E. line and 500' S. of N. line

Slot — Diam. — Length — Bottom set at — ft.

[Show location in Section Plat]

Township name Elev. 765

Description of location 701 Gamble Drive Lot 7, Bl. 9

Lisle, Ill. Lisle Countryside Unit 3

Sec. SW 11

Twp. 38N

Rge. 10E

Signed J Young County Du Page

Copy for Illinois State Geological Survey [illegible] Index: DuP 38N 10E-11.6 627

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

(161)

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 125 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven _____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled X. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

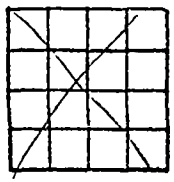
2. Distance to Nearest:
   Building 30' Ft. Seepage Tile Field 75'
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank 50' Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes X No _____
4. Date well completed 11-23-73
5. Permanent Pump Installed? Yes X No _____
   Manufacturer BARNES Type SUBMERSIBLE
   Capacity 10 gpm. Depth of setting 80' ft.
6. Well Top Sealed? Yes X No _____
7. Pitless Adaptor Installed? Yes X No _____
8. Well Disinfected? Yes X No _____
9. Water Sample Submitted? Yes _____ No X

REMARKS: OWNER INSTRUCTED TO TAKE SAMPLE.

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner RICHARD WILBURN Well No. _____
    Address 4505 CHELSEA
    Driller DUPAGE PUMP INC. License No. 92-147
11. Permit No. 26629 Date 9-20-73
12. Water from LIMESTONE (Formation) 13. County DUPAGE
    at depth ____ to ____ft.
    Sec. 2
    Twp. 38N
    Rge. 10E
    Elev. _____
14. Screen: Diam. _____in.
    Length: ____ft. Slot _____



SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	STEEL 14.98	0	75'

lot 3 Block 1 A.T. McIntosh Lisle Dev. Subd. Unit #1 located in the above described section.

16. Size Hole below casing: 5 in.
17. Static level ____ft. below casing top which is 8 ft. above ground level. Pumping level 55 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
DRIFT	75'	75'
LIMESTONE	50'	125

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Oscar Yeoman DATE 11-23-73

163

TO DRILLERS

EQUESTED AND MAIL ORIGINAL TO STATE
SUMER HEALTH PROTECTION, 535 WEST
61. DO NOT DETACH GEOLOGICAL/WATER
E PROPER WELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Thomas Venard Well No. 1
Address Lot #27, 612 Hitchcock St., Lisle, IL.
Driller Charles Fykes License No. 23
11. Permit No. 109247 Date 9-8-83
12. Water from Limestone (Formation) 13. County ~~Will~~ DuPAGE
at depth 105 to 165 ft. Sec. 10
14. Screen: Diam. _____ in. Twp. 38N
Length: _____ ft. Slot _____ Rge. 10E
Elev. _____

	X		

SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15'lbs.	0	105

16. Size Hole below casing: 5 in.
17. Static level 80 ft. below casing top which is +1 ft. above ground level. Pumping level 100 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	2'	2'
Clay	68'	70'
Gravel	35'	105'
Limestone		165

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE 9-16-83

10 38N 10E

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 125 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. 5 in. Depth 115 ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 75'
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50' Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes X No ____
4. Date well completed 4-4-81
5. Permanent Pump Installed? Yes ____ Date ____ No X
   Manufacturer ____ Type ____ Location ____
   Capacity ____ gpm. Depth of Setting ____ Ft.
6. Well Top Sealed? Yes X No ____ Type Williams
7. Pitless Adapter Installed? Yes ____ No ____
   Manufacturer ____ Model Number ____
   How attached to casing? ____
8. Well Disinfected? Yes X No ____
9. Pump and Equipment Disinfected? Yes ____ No ____
10. Pressure Tank Size ____ gal. Type ____
    Location ____
11. Water Sample Submitted? Yes ____ No X

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Tom Venard Well No. 1
    Address Lot #17- 900 Gamble Rd.
    Driller Charles Fykes License No. 23
11. Permit No. 98954 Date 4-1-81
12. Water from Limestone (Formation) at depth 113 to 125 ft.
13. County DuPage
    Sec. 11.8c
    Twp. 38 N
    Rge. 10 E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____

SHOW LOCATION IN SECTION PLAT
Lot 17, SW NW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	A-53 15 lbs.	0	115'

16. Size Hole below casing: 5 in.
17. Static level 75 ft. below casing top which is +1 ft. above ground level. Pumping level 100 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	55'	55'
Sand	15'	70'
Sand and Clay	15'	85'
Gravel	28'	113'
Limestone	12'	125'

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE 10-1-82

IDPH 4.065
1/74 – KNB-1

165

999 over 2,500'

City _____ County Du Page

Section 11 Twp. No. 38N Range 10 E.

Location (in feet from section corner) 225 ft N & 70 ft W. of N.E. corner of S.E. 1/4 section.

Owner J. Palivoda. Authority Owner - Contractor

Contractor A.W. Morey Address Aurora.

Date drilled 1925 Elev. above sea level top of well 680 ft

Depth 95 ft.

Log

Limestone 65 ft to 95 ft.

Were drill cuttings saved no Where filed _____

Size hole 4 in. If reduced, where and how much _____

Casing record 4 in to rock at 65 ft.

Distance to water when not pumping 30 ft. Distance to water is 30 feet after pumping at 10 G. P. M. for 4 hours.

Reference point for above measurements grade.

Type of pump reciprocating. Distance to cylinder 25 ft.

Length of cylinder 16 in. Length of suction pipe below cylinder 10 ft.

Length stroke 6 in. Speed 30 R.P.M.

Hours used per day automatic. Type of power electric -

Rating of motor 1/2 Rating of pump in G. P. M. 270 G.P.H.

Can following be measured: (1) Static water level no

(2) Pumping level no (3) Discharge no

(4) Influence on other wells none.

Temperature of water _____ Was water sample collected no

Date _____ Effect of water on meters, hot water coils, etc. hard

Date of Analysis _____ Analysis No. _____

Recorder Frank R. Dunbar.

Date 3/5/34

2807-19399 12

3
166

over >2,500

(65600—60M—10-57)

16

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Top Soil	3	0	3
Brown Clay and Gravel	18	3	21
Blue Clay	4	21	25
Sand and Gravel	6	25	31
Gravel (water)	29	31	60
Limestone	45	60	105
			TD

Finished in Limestone at 60-105'

Cased with 5" Black casing from 60-60' and 5" Limestone from 60-105'

Size hole below casing 5"

Static level from surface 35'

Temperature 51°F

SW/SE/NE

Received from DuPage County Health Department
Collected by A. J. Leisel
No Envelope

COMPANY Arnt and Son
FA[illegible] M Gill
DA[illegible]RILLED 1958
AUTHORITY N. Arnt, Jr.
ELEVATION 685±
LOCATION 535' S line, 840' E line of NE
COUNTY DU PAGE

NO.
COUNTY NO. 199

11-38N-10E

167

(3)

over 2,500

(37329—20M—5-56)

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
oil and clay		0	8
ravel		8	15
ravel		15	30
and and gravel		30	65
ravel		65	90
and		90	105
ravel		105	110
ravel and sand		110	113
ime		113	190
hale, red		190	196
Red ck		196	200
			TD

Casing: 115', 12", 3/8" steel welded from 0 to 115'. 119', 8", 3/8" steel welded from 0 tp 119'.

Hole Record: 12" from 0 to 119'
8" from 119' to 200'.

Cementing Record: 8" casing cemented in from 119' to surface.

Static level 96'; pumping level 108 after 7 hours pumping at 305 gallons per minute.

Length of test 7 shours.
S.S.# 27990

COMPANY	Layne-Western Company
FARM	Oakview Subdivision NO. 1
DATE DRILLED	May 8, 1957 COUNTY NO. 18
AUTHORITY	Layne-Western Company
ELEVATION	
LOCATION	1700'E line, 700'N line, of SW
COUNTY	DuPAGE

11-38N-10E

168 (4)

City _____ County Du Page

Section 2 Twp. No. 38 N Range 10 E.

Location (in feet from section corner) 160 ft S of Ogden Ave 2320 ft W of E. Sect. Lin. Ivanhoe Ave

Owner C.H. Fowler. Authority Owner

Contractor O.K. Hawkyard Address _____

Date drilled _____ Elev. above sea level top of well 700 ft

Depth 139. ft.

Log _____

Limestone 114 ft. to 139 ft.

Were drill cuttings saved no Where filed _____

Size hole 4 in. If reduced, where and how much _____

Casing record 4 in to rock.

Distance to water when not pumping _____ Distance to water is _____

feet after pumping at _____ G. P. M. for _____ hours.

Reference point for above measurements grade.

Type of pump reciprocating Distance to cylinder _____

Length of cylinder _____ Length of suction pipe below cylinder _____

Length stroke 6 in. Speed 40 R.P.M.

Hours used per day automatic Type of power electric.

Rating of motor 1/2 H.P. Rating of pump in G. P. M. 270 G.P.H.

Can following be measured: (1) Static water level no

(2) Pumping level no (3) Discharge no

(4) Influence on other wells none.

Temperature of water _____ Was water sample collected no

Date _____ Effect of water on meters, hot water coils, etc. _____

Date of Analysis _____ Analysis No. _____

Recorder Frank R. Dunbar.

Date 3/22/34

2807-22617 12

P-181977

169 5 ~~18~~ (17)

City _____ County Du Page

Section 2 Twp. No. 38 N Range 10 E Near I-355

Location (in feet from section corner) 250 ft N of Ogden Ave 790 ft W of E. Sect. Line.

Owner F. Thoman. Authority Owner & Contractor.

Contractor O. K. Hawkyard Address Danners Grove

Date drilled 1919 Elev. above sea level top of well 735 ft

Depth 115 ft 9 in 78/657

Log

Limestone 98 ft 6 in to 115 ft 9 in.

Were drill cuttings saved no Where filed

Size hole 4 in If reduced, where and how much

Casing record 4 in to rock.

Distance to water when not pumping 78 ft 1 in. Distance to water is

feet after pumping at G. P. M. for hours.

Reference point for above measurements grade.

Type of pump reciprocating. Distance to cylinder 95 ft

Length of cylinder 2 1/4 x 16 in Length of suction pipe below cylinder 0

Length stroke 8 in Speed

Hours used per day 2 Type of power windmill

Rating of motor Rating of pump in G. P. M.

Can following be measured: (1) Static water level no

(2) Pumping level no (3) Discharge yes - in reservoir

(4) Influence on other wells none

Temperature of water 48° Was water sample collected no

Date Effect of water on meters, hot water

coils, etc. hard

Date of Analysis Analysis No.

Recorder Frank R. Dunbar

Date 3/22/34

2807-22617 12

0 121970

170

6

Hitchcock ±2,500'

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Soil	1	0	1
Clay, yellow	17	1	18
Clay, gray	5	18	23
Clay, gray and sand	10	23	33
Clay, gray and sand	12	33	45
Clay, gray and gravel	9	45	54
Clay, gray and sand and gravel	16	54	70
Gravel and sand	10	70	80
Niagaran Lime	18'6"	80	98'6" TD

Water level 39'

80/98.5

82' of 4½" casing

4½" drive shoe

Capacity 5 gallon per minute

Lot 22, A. T. McIntosh & Co.'s First Addition.
Hitchcock Avenue.

Received through Naperville Office

SW 1/4 SE 1/4 NE 1/4

No Envelope

COMPANY	Neely & Schimelpfenig
FARM	Anderson, Oscar NO.
DATE DRILLED	1942 COUNTY NO. 715
AUTHORITY	Neely & Schimelpfenig
ELEVATION	690'
LOCATION	850' E line, 2500' N line of NE
COUNTY	DUPAGE

Sect. 11-38N-10E

171

over 2,500'

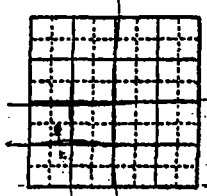
(65500—60M—10-57)

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Summary Sample Study by P. R. Stewart 10/59			
PLEISTOCENE SERIES			
Till, buff to grayish-buff, slightly calcareous	8		8
Till, gravely, slightly sandy, buff, calcareous	7		15
Gravel, sand (dolomite fragments) and till, gray, buff, calcareous	35		50
Till, slightly gravely, gray to grayish-buff, calcareous	10		60
Gravel (dolomite and chert fragments) buff, white to gray, white to little till, grayish-buff, calcareous	15		75
Gravel (dolomite and chert fragments) white, gray, buff (up to 5/8"), very clean	25		100
Sand (quartz, dolomite, chert), fine, medium to coarse, multi-colored, white to little gravel (dolomite and chert), multi colored, clean	15		115
SILURIAN SYSTEM			
NIAGARAN-ALEXANDRIAN SERIES			
Dolomite, slightly cherty, slightly argillaceous, white, very fine, crystalline	20		135
Dolomite, white to light gray, fine, crystalline, white with some visible porosity	10		145

COMPANY Layne-Western Company
FARM Oakview Subdivision NO. 1
DATE DRILLED May 1957 COUNTY NO. 18
AUTHORITY P. R. Stewart
ELEVATION
LOCATION 1700' E line, 700' N line of SW SE/NW/SW
COUNTY DUPAGE S.S.# 27990



11-38N-10E

172

8

+ Cotbck
15, 19, & 36 ALSO

(36941—50M—2-67)27-0

ILLINOIS GEOLOGICAL SURVEY, URBANA

CABLE TOOLS	Thickness	Top	Bottom
Black dirt	2		2
Clay, gray	40		42
Gravel	10		52
Clay, gray	20		72
Sand and gravel	30		102
Rock	18		120
			TD
Water down 90' from surface.			
Casing: 4"			
Produces 600 gallons per hour			
S[illegible]e Study by P.M. Busch 6/49			
PLEISTOCENE SYSTEM			
No record	102		102
SILURIAN SYSTEM			
Niagraran Series			
Dolomite, cherty, silty and very fine sandy, light buffish gray, fine; caved till, sand and gravel	5		107
Same, few dark brown shale partings	5		112
Same	5		117

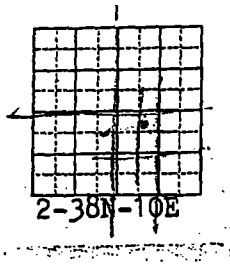
Permit issued September 29, 1942

*Location by A. Zeizel no blk #

*Lots 9 & 10, A.T. McIntosh Fifth Ave. subdivision

NO ENVELOPE NE/SE/SE

COMPANY	H.H. Miller		
FARM	Donda, Emil	NO.	
DATE DRILLED	November, 1942	COUNTY NO.	1468
AUTHORITY	Company		
ELEV.			
LOCATION	*2250' S line, 1800' E line of SE		
COUNTY	DUPAGE	S.S. # 10227	



2-38N-10E

173

9

(8811—50M—6-69) 14

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

Permit No. 93943	Thickness	Top	Bottom
Brown clay		0	10
Gray clay with small gravel		10	35
Brown medium fine sand		35	50
Gray sandy clay with small gravel		50	55
Clay with boulders		55	58
Coarse gravel and little clay		58	65
Medium fine gravel		65	68
Medium hard brown limestone		68	76
Medium hard brown limestone		76	82
Hard brown limestone		82	95
Hard gray limestone with green shale		95	110
Hard gray chert limestone		110	172
Medium hard brown and gray limestone		172	190
Brown and gray limestone		190	195
Medium hard brown limestone		195	235
Soft gray shale		235	244
Soft brown shale		244	255
Total Depth			255

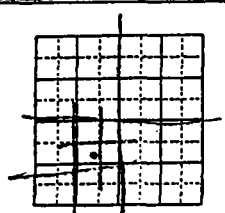
Casing: 74' - 20" 3/8 steel with welded joints from 0 to 74'
78' - 16" 3/8" steel with welded joints from +2 to 76'

Hole Record: 20" from 0 to 74'
16" from 0 to 255'

Well Test Data: Static level 65 pumping level 67 after 6 hours pumping at 1865 gpm.

No Envelope SW/NE/SW

COMPANY Layne-Western Company, Inc.
FARM Lisle New Well NO. 6
DATE DRILLED June 24, 1980 COUNTY NO. 25991
AUTHO Company
ELEVA
LOCATION 1500'S line, 2000'W line
COUNTY DUPAGE



2-38N-10E

1-74

/0

over 2,500

(36941—50M—2-67) 27-0

Page 1

ILLINOIS GEOLOGICAL SURVEY, URBANA

	Thickness	Top	Bottom
Yellow clay	20		20
Blue clay	30		50
Gravel	11		61
Limestone	49		110
Total Depth			110

Finished in limestone at 61 - 108'.

C[illegible]d with 5" black iron pipe from [illegible] 61'; 5" open hole from 61 - 108'
Size of hole below casing: 5"
Static level from surface: 42'
Temperature 51°F

SE | SW | NE

* AO 717 Lot 38 Lisle, Illinois

NO ENVELOPE

COMPANY N. Arnt and Son
FARM Venard, Thomas NO. 8
DATE [illegible]LED 1958 COUNTY NO. 117
AUTHORITY Company
ELEVATION 695'
LOCATION *2125' N line, 1875' E line of NE
COUNTY DUPAGE

11-38N-10E

Wh[illegible] Copy –
[illegible] Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

(13)

INSTRUC[illegible]S TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift____. In Rock X.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 10 Ft. Seepage Tile Field none
   Cess Pool None Sewer (non Cast iron) None
   Privy none Sewer (Cast iron) 61'
   Septic Tank None Barnyard none
   Leaching Pit None Manure Pile none
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed 7-22-70
5. Permanent Pump Installed? Yes X No____
   Manufacturer Reda Type Subm.
   Capacity____gpm. Depth of setting 75 ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____No X

REMARKS:

IDPH 4.065
10/68

Meadow Equip. Sales + Service

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Glen of Glen Ellyn Well No.____
    Address Kingston + Oldham. Lisle
    Driller Patrick A. Liberg License No. 92-39
11. Permit No. 10160 Date 7-20-70
12. Water from Limestone (Formation) at depth 67 to 85 ft.
13. County Du Page
    Sec. 2 [illegible]
    Twp. 38N
    Rge. 10E
    Elev.____
14. Screen: Diam.____in.
    Length:____ft. Slot____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	black	0	67
	15# per ft.		

SHOW LOCATION IN SECTION PLAT
60'N 200'W
SE/c NE NW SW

16. Size Hole below casing: 5 in.
17. Static level 52 ft. below casing top which is 1 ft. above ground level. Pumping level 52 ft. when pumping at 10 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	0	9
Yellow Gravel	9	63
Fine Sand	63	67
(Bed Rock) Limestone	67	85

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Patrick A. Liberg by Vivian Sisson DATE 7-24-70

White Co
Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIOI ' DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, BUREAU OF ENVIRONMENTAL HEALTH, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62701. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

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ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 105 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven____. Drive Pipe Diam. 5 in. Depth 57 ft.
   c. Drilled X. Finished in Drift____. In Rock X.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 75'
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 50' Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed 7-23-77
5. Permanent Pump Installed? Yes X No____
   Manufacturer Barnes Type Submersible
   Capacity 10 gpm. Depth of setting 60 ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____ No X

REMARKS:

IDPH 4.065
10-72
KNB-1

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Tom Venard Well No. 1
    Address Lot 4 - 4405 Kingston
    Driller Charles Fykes License No. 23
11. Permit No. 61254 Date 5-27-77
12. Water from Limestone (Formation)
    at depth 57 to 105 ft.
13. County DuPage
    Sec. 27a
    Twp. 38N
    Rge. 10E
    Elev.____
14. Screen: Diam.____ in.
    Length:____ ft. Slot____
15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
5	A-53 15lbs	0	57

SHOW LOCATION IN SECTION PLAT
SE SW SW

16. Size Hole below casing: 5 in.
17. Static level 30 ft. below casing top which is +1 ft. above ground level. Pumping level 40 ft. when pumping at 10 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Clay	5	5
Gravel	52	57
Limestone	48	105

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Charles Fykes DATE 1-16-80

177

828 Kirby Rd

TED AND MAIL ORIGINAL TO STATE
ENVIRONMENTAL HEALTH, 535 WEST
NOT DETACH GEOLOGICAL/WATER
EF ELL LOCATION.

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed 7-2-74

Property owner Kellor Benet Well No. -
Address Lot 5 Lisle Countryside
Driller RK Well Licens No. 102 B4
Permit No. 28265 Date 3/21/74
Water from Limestone 13. County DuPage
Formation
at depth 20 to 140 ft.
Screen: Diam. _____ in.
Length: _____ ft. Slot _____

Sec. 11
Twp. 38N
Rge. 10E
Elev. _____

Casing and Liner Pipe

Diam. (	Kind and Weight	From (Ft.)	To (Ft.)
5	Bek 15	0	90

SHOW LOCATION IN SECTION PLAT
Lot 5 Blk 2
Lisle Country-
side # 1, NW
(permit)

6. Size Hole below casing: 5 in.
7. Static level 22 ft. below casing top which is 2 ft. above ground level. Pumping level 125 ft. when pumping at _____ gpm for _____ hours. Submersible pump set at 105'

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	90	90
Rock formation	50	140

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Freeman DATE 7/10/74

COUNTY No. 23743

DUPAGE 11-38N-10E