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February 11, 1999

Scott J. Ferguson, Hydrogeologist
Waste Management Program
Wisconsin Department of Natural Resources
Southeast Region Annex
4041 North Richards Street
Post Office Box 12436
Milwaukee, Wisconsin 53212-0436

Reference: *Addendum to Site Investigation Work Plan*
Former Hein Werner Property
1005 Perkins Avenue
Waukesha, Wisconsin
FID #268091890

KEY ENGINEERING GROUP, LTD.
Project No. 0810009

Dear Mr. Ferguson:

This letter serves as an addendum to the November 8, 1998 *Site Investigation Work Plan* for the above referenced site. This addendum addresses the Wisconsin Department of Natural Resources' (WDNR's) comments in the January 14, 1999 letter from Mr. Scott Ferguson, WDNR Waste Management Program, to Mr. Hiram Buffington, Snap-On Tools [attached].

The following work plan changes have been made:

1. If existing groundwater monitoring wells EW-01 and EW-02 are not suitable, they will be abandoned and replaced.
2. Each soil boring will be converted to a groundwater monitoring well (eight total).

KEY and Snap-On Tools do not believe that piezometers are initially needed at each monitoring well location. Therefore, it is proposed that piezometers would be initially nested with four of the groundwater monitoring wells [see attached Revised Figure 6].

3. Each groundwater monitoring well and piezometer (12 total) will undergo in-field hydraulic conductivity testing.

Scott J. Ferguson
February 11, 1999
Page 2

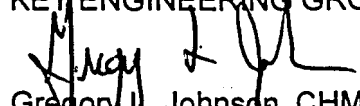
4. Each groundwater sample collected from groundwater monitoring wells and piezometers (28 total with duplicates) will be analyzed for PCBs and RCRA metals.

The revised work plan pages are attached.

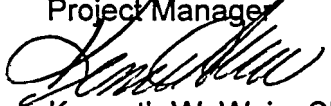
Please call with any questions regarding this letter.

Sincerely,

KEY ENGINEERING GROUP, LTD.



Gregory L. Johnson, CHMM, P.G., P.E.
Project Manager



Kenneth W. Wein, CHMM
Project Principal

GLJ/kar

cc: Mr. Hiram Buffington, Snap-On Tools

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– 6.0 SITE INVESTIGATION SCOPE

Based on the previous investigation and remedial action data and preliminary conceptual site model, the site investigation will consist of a surface waste/debris inventory, a fill/soil investigation, a groundwater investigation and a subject site survey.

The site investigation will be performed in accordance with the *SAP* (Appendix 2), the *QAPP* (Appendix 3), the *DMP* (Appendix 4) and the *HSP* (Appendix 5). A site investigation sampling and analysis summary is included on Table A3-1 of the *QAPP*.

6.1 Surface Waste/Debris Inventory

The scope of the surface waste/debris inventory will consist of the following:

- Perform a detailed reconnaissance of the subject site.
- Document the locations and approximate quantity of surface (or partially exposed) paint residue and drum remnants and other metal debris on a subject site map.
- Estimate the quantity of the different surface wastes and debris for future removal action.

6.2 Soil/Fill Investigation

The scope of the soil/fill investigation will consist of the following:

- Eight (8) soil borings to an approximate depth of 10 feet. The locations of the soil borings are depicted on Figure 6.
- Soil samples will be collected at 2.5-foot intervals and field screened with a photoionization detector (PID).
- The surface sample and sample of native soil directly beneath the fill will be submitted for laboratory analysis from each soil boring.
- Samples will be analyzed for VOCs, PCBs, and Resource Conservation and Recovery Act (RCRA) metals. The native soil samples will also be analyzed for total organic carbon (TOC).

6.3 Groundwater Investigation

The scope of the groundwater investigation will consist of the following:

- Inspect existing groundwater monitoring wells EMW-01 and EMW-02. If the wells are suitable, the wells will be redeveloped. If the wells are not suitable, they will be abandoned and replaced.

- Install groundwater monitoring wells in each soil boring. Piezometers will be nested with the four (4) of the groundwater monitoring wells. The locations of the proposed groundwater monitoring wells and piezometers are depicted on Figure 6.
- The groundwater monitoring wells will be screened in the sandy outwash unit (from approximately 5 to 20 feet bgs) and the piezometers will also be screened at the base of the silty lacustrine unit (from approximately 35 to 40 feet bgs).
- Each groundwater monitoring well and piezometer will undergo in-field hydraulic conductivity testing.
- Perform two (2) rounds of groundwater sampling.
- Groundwater samples will be analyzed for VOCs, PCBs and RCRA metals and select natural attenuation indicator parameters.

6.4 Survey

The scope of the subject site survey will consist of the following:

- Verification of subject site property boundaries and physical features.
- Surface waste/debris inventory data.
- The location and ground surface elevation of the soil borings.
- The location and ground surface, top of protective pipe and top of casing of the groundwater monitoring wells and piezometers.

6.5 WDNR File Review

A review of WDNR files for the adjacent Spill Site (Alloy Products Corporation) and Leaking Underground Storage Tank Site (Dairyland Buses, Inc.) may be performed based on the site investigation results.

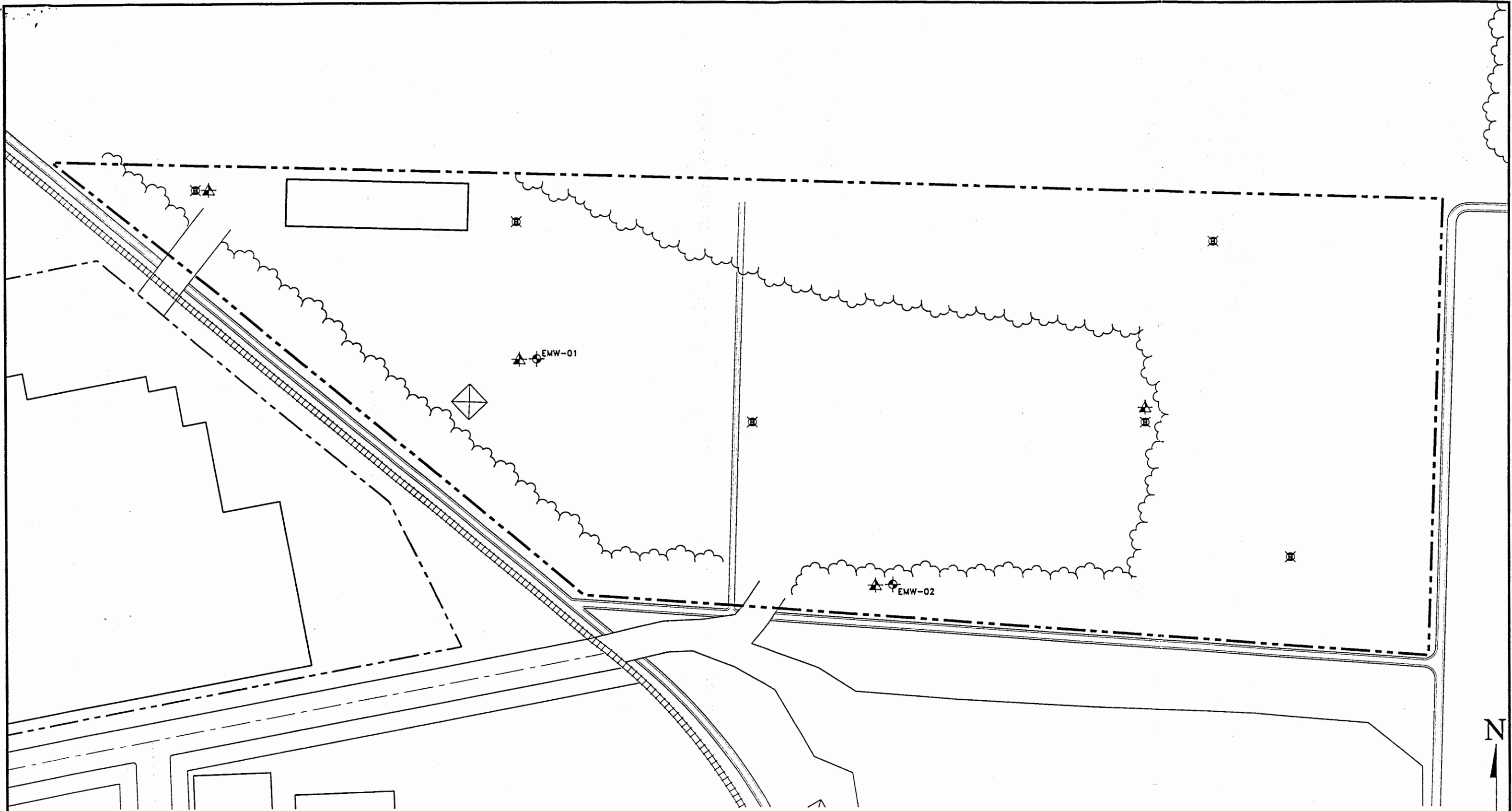
TABLE A3-1

**SAMPLING AND ANALYSIS SUMMARY
 QUALITY ASSURANCE PROJECT PLAN
 SITE INVESTIGATION WORK PLAN
 FORMER HEIN WERNER PROPERTY
 1005 Perkins Avenue
 Waukesha, Wisconsin**

SAMPLE MATRIX	LABORATORY PARAMETERS	FIELD PARAMETERS	NO. OF SAMPLES	FIELD DUPLICATES	FIELD/RINSATE BLANKS	TRIP BLANKS	TOTAL SAMPLES
Soil/Fill	VOCs	Field Screening with PID	16	2	2	2	22
	PCBs		16	2	2	---	20
	Metals		16	2	2	---	20
	TOC		8	---	---	---	8
Groundwater	VOCs	DO	24	4	2	2	32
	PCBs	Temperature	24	4	2	---	30
	Metals	pH	24	4	2	---	30
	Nitrate	Conductivity	24	4	2	---	30
	Sulfate	ORP	24	4	2	---	30

Notes:

- DO - dissolved oxygen
- ORP - oxidation reduction potential
- PCBs - polychlorinated byphenyls
- TOC - total organic carbon
- VOCs - volatile organic compounds



- LEGEND**
- ◆ EXISTING MONITORING WELL LOCATION
 - ⊠ PROPOSED MONITORING WELL LOCATION
 - ▲ PROPOSED PIEZOMETER LOCATION

REVISION 01

<p>SCALE: 1"=80'</p>		
DRN. BY:	S.L.G.	DATE: 02/09/99
DSN. BY:	G.L.J.	FILE NO.: 0810009
CHK. BY:	G.L.J.	DWG. NO.: 8010096
REV. BY:	K.W.W.	SHEET NO.: 6

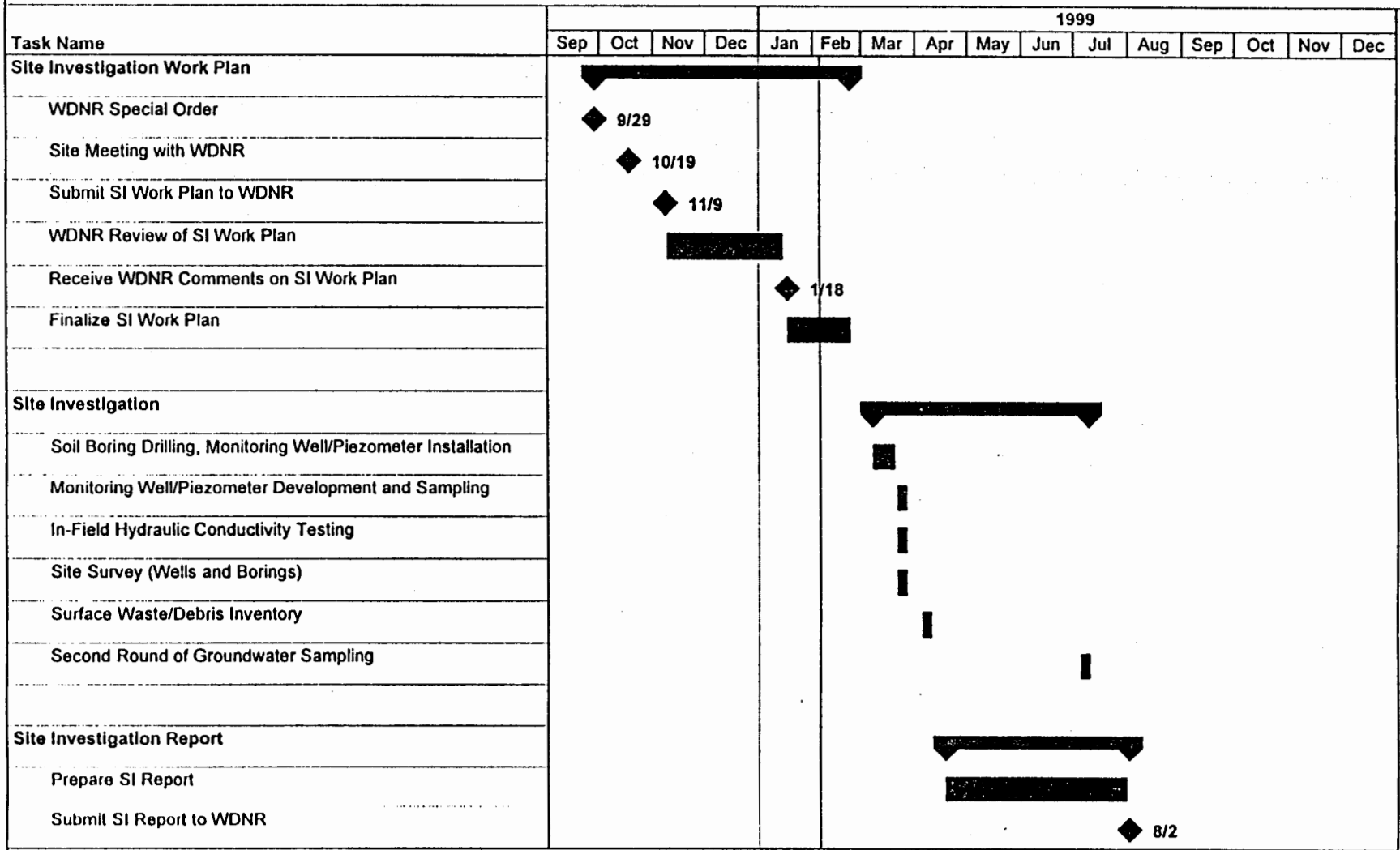


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FIGURE 6
PROPOSED PIEZOMETER AND
GROUNDWATER MONITORING
WELL LOCATIONS

SITE INVESTIGATION WORK PLAN
 FORMER HEIN WERNER PROPERTY
 1005 PERKINS AVENUE
 WAUKESHA, WISCONSIN

**FIGURE 8
SITE INVESTIGATION SCHEDULE
FORMER HEIN WERNER PROPERTY**



Project: 0810009
Date: 2/5/99

Task



Milestone



Summary

