

DATE: August 29, 2006 FILE REF: 02-13-000895

TO: Closure Committee

FROM: Dino Tsoiris

SUBJECT: Closure Request, Groundwater Project, Oscar Mayer, 910 Mayer Ave., Madison, WI
Closure Date: July 31, 2006
Priority: Chlorinated Solvents & Bedrock Contamination
Acres for Reuse: 54 acres

Background: In 1994, chlorinated compounds were detected in the production wells for Oscar Mayer, Inc. The depth of the production wells ranges from ~400-700 ft BGS with casing depths a minimum of ~270 ft BGS. An environmental site investigation was performed to determine the extent of contamination and the potential source of the chlorinated solvent contaminants.

While not addressed in the 1994 investigation or the 2006 closure request, a spill of chlorinated solvents from a former drum storage area is noteworthy for this closure request. A release of chlorinated solvents was identified in the drum storage area in 1986. In late 1987 and early 1988, approximately 110 cubic yards of contaminated soil was excavated from the area and treated on site. Chlorinated compounds detected in shallow soil samples (1.5-2.0' – 3-4' BGS) identified PCE at concentrations of 400 & 610 ppb. The excavation extended to a depth of ~7.5 ft BGS. Other detected compounds included TCE and 1,2-Dichloroethylene. Soil confirmation samples were only field screened; no samples were collected for laboratory analysis. No groundwater monitoring was conducted in this area. The exact location of the excavation is difficult to identify but appears to be west of Building 28 (Warehouse B) and the Guard House (32B) closest monitoring well may be several hundred feet from the source area.

Geology- Nine groundwater monitoring wells were installed on the property. The highest levels of chlorinated solvents found in the groundwater were identified in groundwater collected from MW-1 & PZ-1. Subsequently, 11 soil borings were installed to determine if there was a potential source in proximity of MW-1 & PZ-1. Groundwater is present at five to eight feet BGS, groundwater flow direction is to the west, with the most recent flow direction measured to the south.

Investigation Results – No identified source of chlorinated solvent contamination was identified during the 1994 investigation, however, additional investigative activities as recommended in the 1994 report were not conducted. Residual groundwater contamination remains in the unconsolidated aquifer, primarily vinyl chloride at MW-1 & PZ-1 at 14.0 ppb and 0.58 respectively. No source area was identified in the soils in proximity of MW-1/PZ-1. The residual vinyl chloride is likely a recalcitrant breakdown product of other chlorinated compounds.

Oscar Mayer production wells #4 and #6 are not in use and remain as backup for fire control. Production wells #2, #3 and #5 have been abandoned.


It appears that the chlorinated plume has stabilized and receded. The source of the chlorinated solvents has not been identified, off-site, potentials mentioned are Truax, Demetral, or on-site potential is the drum

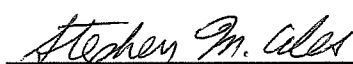
storage area or other unknown areas.


Oscar Mayer is requesting closure with a groundwater GIS listing.


Closure Approved Denied

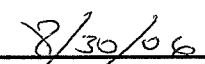

Patrick McCutcheon


Date

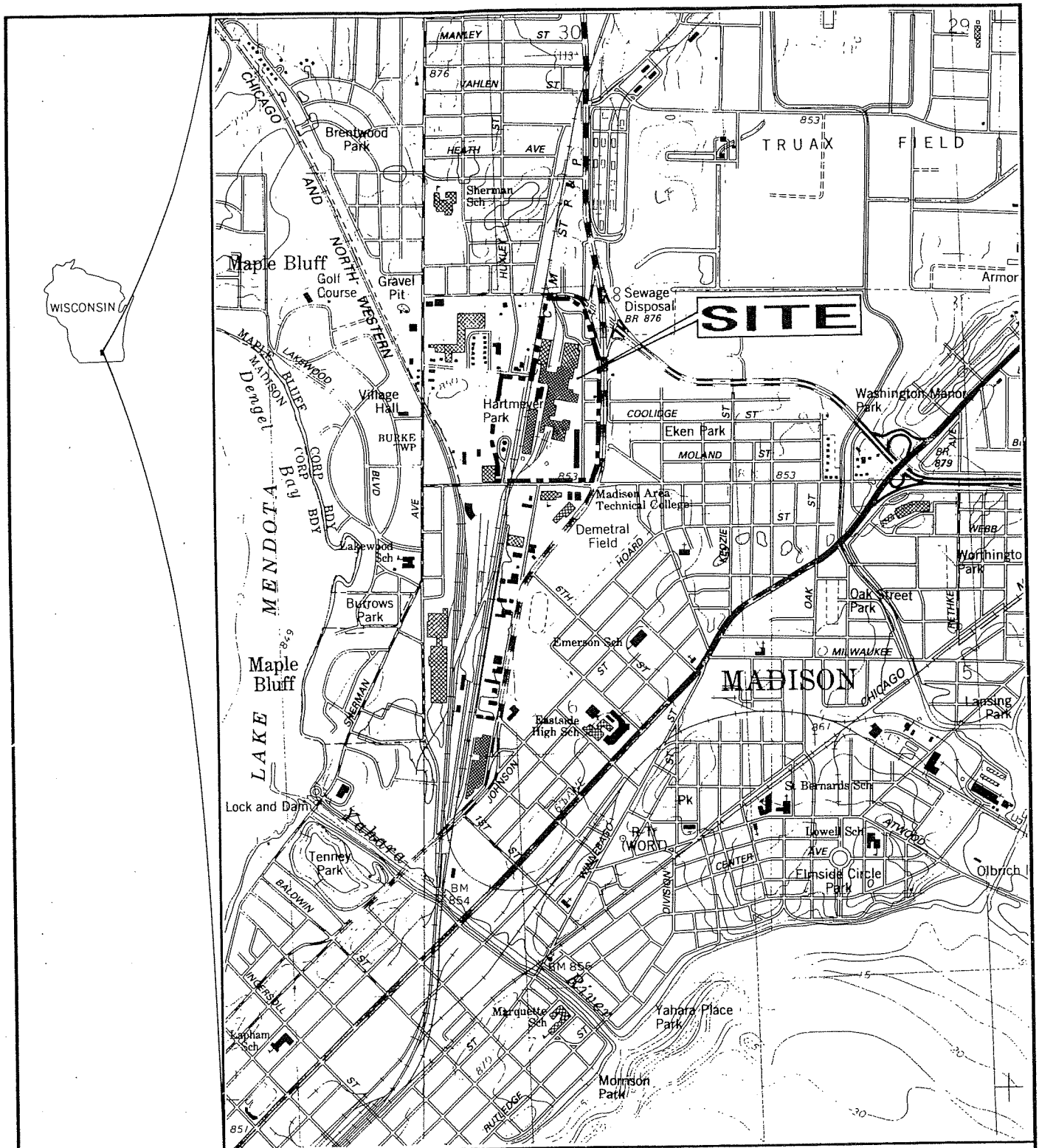

Stephen Ales


Date

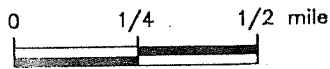

Michael Schmoller


Date

w/ GWEIS listing

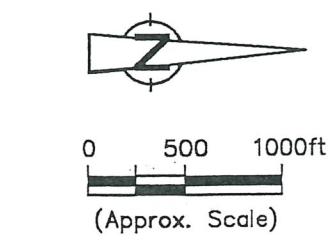
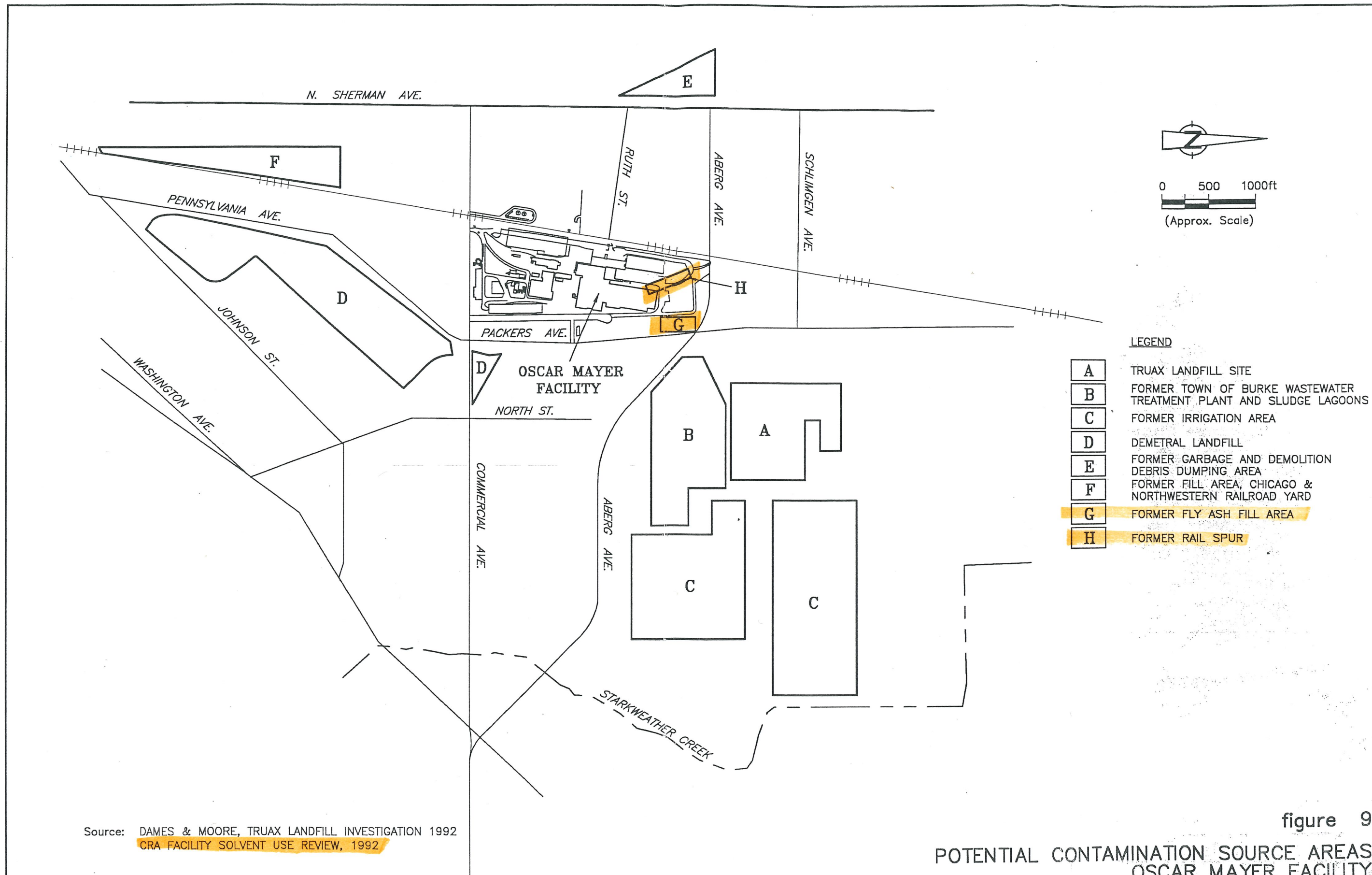


SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE, MADISON EAST, WI, 1983



CRA

figure 1
SITE LOCATION
OSCAR MAYER FACILITY
Madison, Wisconsin

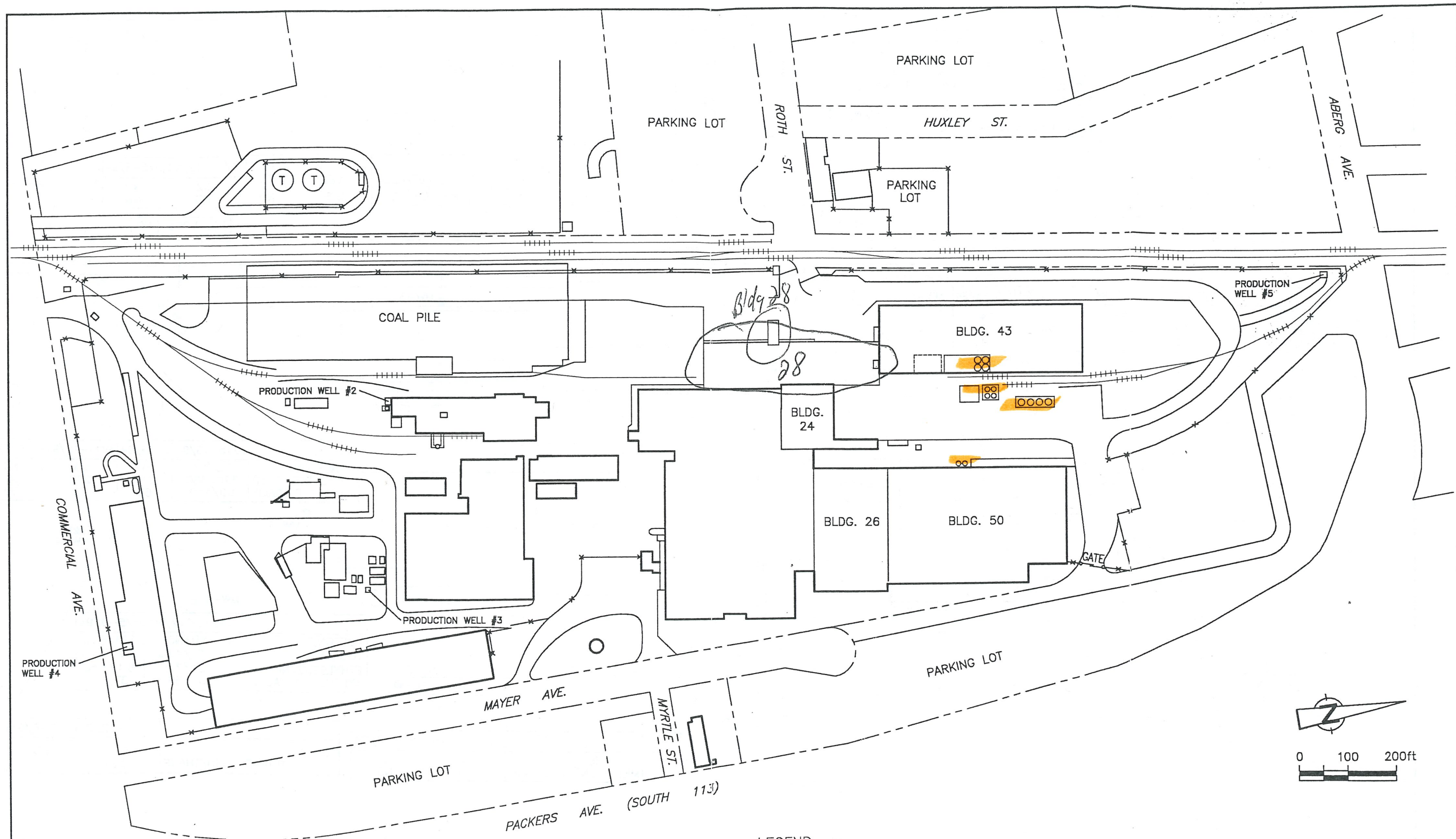


LEGEND

A	TRUAX LANDFILL SITE
B	FORMER TOWN OF BURKE WASTEWATER TREATMENT PLANT AND SLUDGE LAGOONS
C	FORMER IRRIGATION AREA
D	DEMETRAL LANDFILL
E	FORMER GARBAGE AND DEMOLITION DEBRIS DUMPING AREA
F	FORMER FILL AREA, CHICAGO & NORTHWESTERN RAILROAD YARD
G	FORMER FLY ASH FILL AREA
H	FORMER RAIL SPUR

Source: DAMES & MOORE, TRUAX LANDFILL INVESTIGATION 1992
 CRA FACILITY SOLVENT USE REVIEW, 1992

figure 9
 POTENTIAL CONTAMINATION SOURCE AREAS
 OSCAR MAYER FACILITY
 Madison, Wisconsin



LEGEND

-----	PROPERTY LINE
-x-x-	SECURITY FENCE
+++++	RAILROAD TRACK

figure 2
 SITE PLAN
 OSCAR MAYER FACILITY
 Madison, Wisconsin

	2/15-16/94	3/16/94	4/11-12/94	5/5-6/94
ACETONE	6.7J	ND/ND	4.4J	ND
CHLOROBENZENE	5.6	4.7J/4.7J	4.8J	4.8J
1,2-DCA	3.8J	ND/ND	ND	ND
1,2-DCE (Total)	140	30/31	14	9.5
TCE	3.8J	3.8J/ND	ND	ND
VINYL CHLORIDE	75	14/14	8.1J	ND

	2/15-16/94	3/16/94	4/11-12/94	5/5-6/94
1,2-DCE (Total)	190	10	2.2J	ND
VINYL CHLORIDE	6.6J	ND	ND	ND

TCL-VOCs ND

	2/15-16/94	3/16/94	4/11-12/94	5/5-6/94
1,1-DCA	19	22	20	14
1,2-DCE (Total)	2.7J	3.0J	2.2J	2.2J
1,1,1-TCA	3.9J	5.2	3.8J	3.4J

MW-5

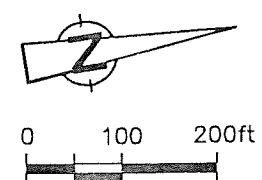
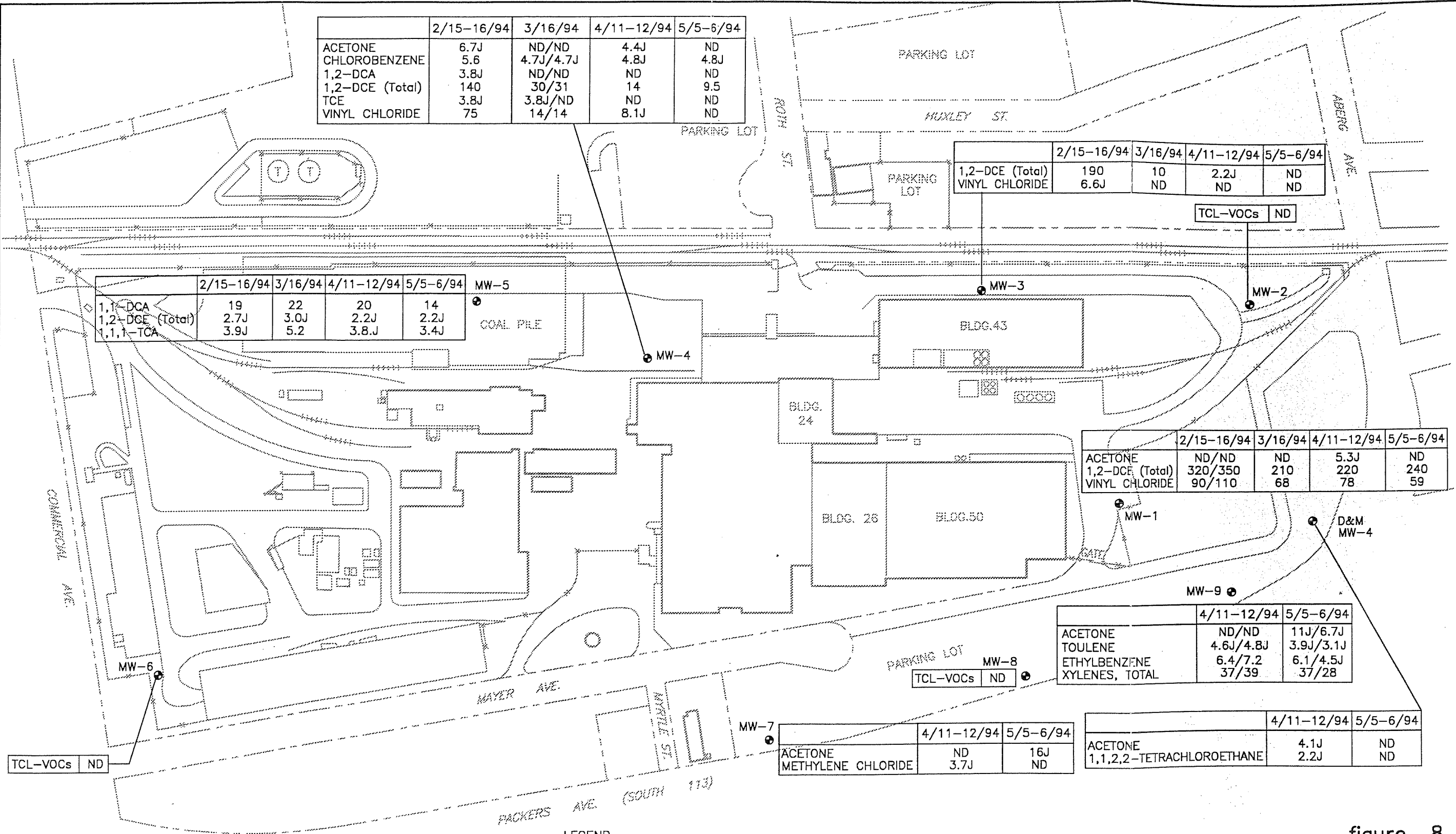
COAL PILE

	2/15-16/94	3/16/94	4/11-12/94	5/5-6/94
ACETONE	ND/ND	ND	5.3J	ND
1,2-DCE (Total)	320/350	210	220	240
VINYL CHLORIDE	90/110	68	78	59

	4/11-12/94	5/5-6/94
ACETONE	ND/ND	11J/6.7J
TOULENE	4.6J/4.8J	3.9J/3.1J
ETHYLBENZENE	6.4/7.2	6.1/4.5J
XYLENES, TOTAL	37/39	37/28

	4/11-12/94	5/5-6/94
ACETONE	ND	16J
METHYLENE CHLORIDE	3.7J	ND

	4/11-12/94	5/5-6/94
ACETONE	4.1J	ND
1,1,2,2-TETRACHLOROETHANE	2.2J	ND



LEGEND

- - - - - PROPERTY LINE
 - - - - - SECURITY FENCE
 - - - - - RAILROAD TRACK
 MW-1 ● MONITORING WELL LOCATION AND IDENTIFIER
 ——— DETECTED CONTAMINANT CONCENTRATION (µg/L)
 1,2-DCE (Total) 350
 ND NOT DETECTED
 J ESTIMATED CONCENTRATION BELOW DETECTION LIMITS
 ND/ND RESULTS AND DUPLICATE RESULTS

NOTE: MW-7, MW-8 AND MW-9 NOT INSTALLED UNTIL APRIL 1994.

figure 8

**GROUNDWATER ANALYTICAL RESULTS
 FEBRUARY THROUGH MAY 1994
 OSCAR MAYER FACILITY
 Madison, Wisconsin**

the
 waiting
 for
 the
 car

ARLSON, WI

TYPE OF CONTACT

YIELD INSPECT

COMP. ENCH

FACILITY STA

TREATMENT

DISCHARGE

DISPOSAL

FAVORABLE (1)

UNFAVORABLE (1)

REMARKS

1. CONTACT

2. SAFTLINO

3. RECORD R

4. PROCURED M

5. CONTACT

6. CONTACT

7. CONTACT

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10. CONTACT

11. CONTACT

12. CONTACT

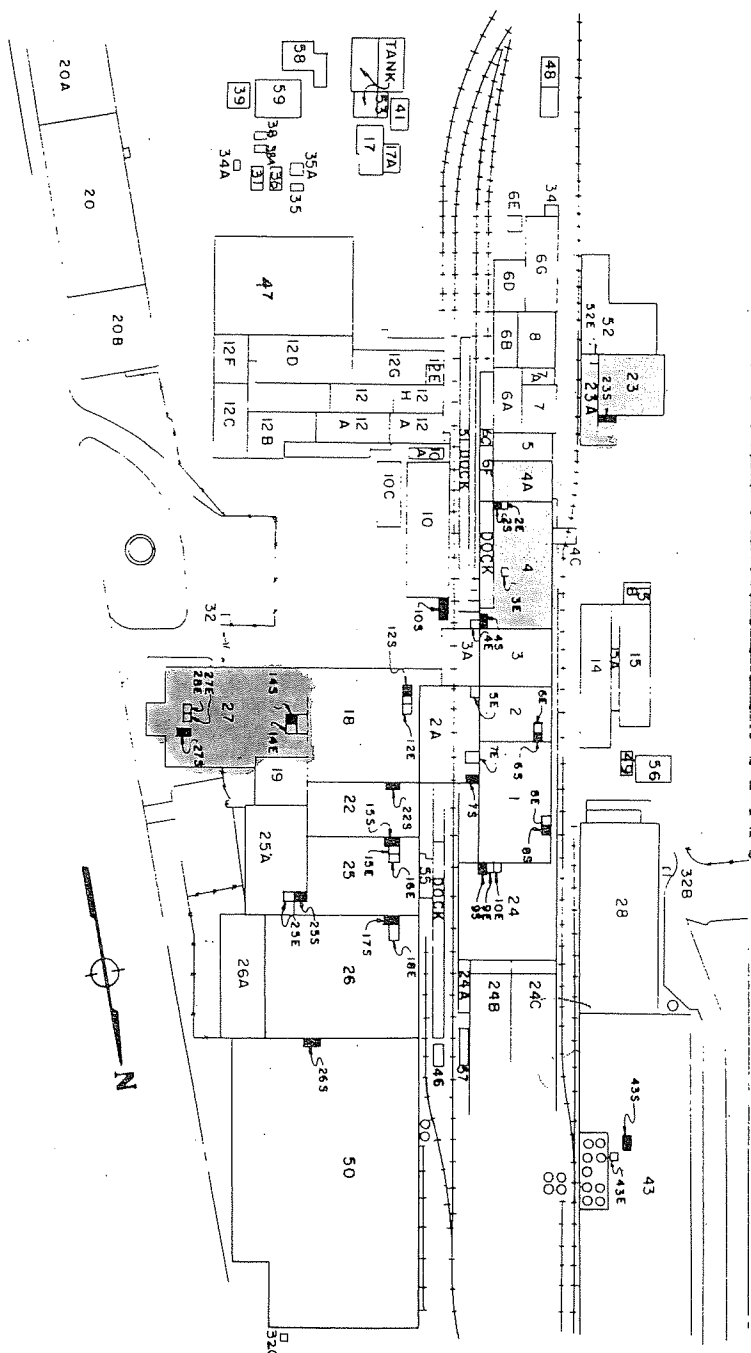
13. CONTACT

14. CONTACT

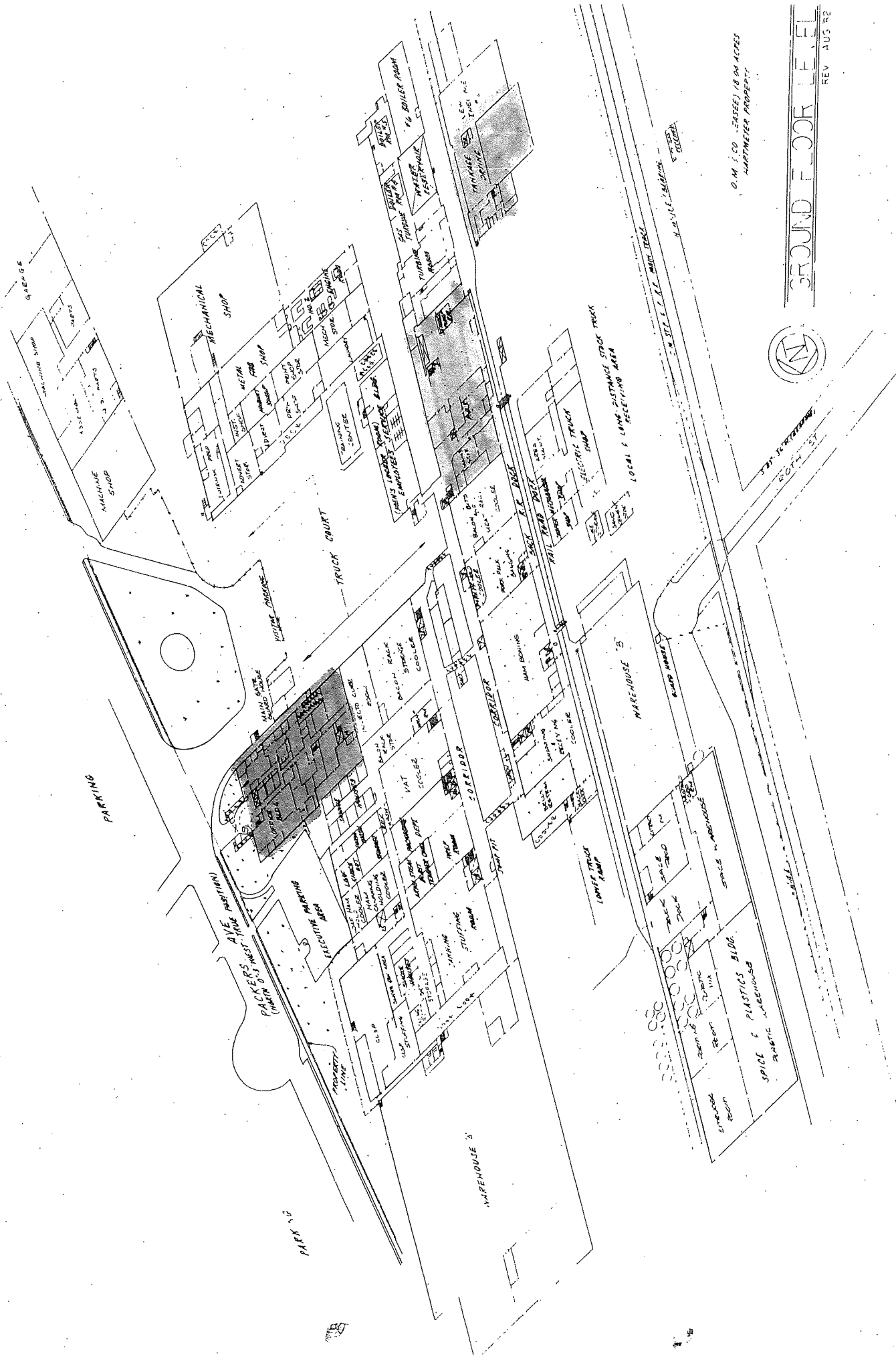
15. CONTACT

16. CONTACT

OSCAR MATHER & CO. BUILDINGS



- 1. COOLER BUILDING
- 2. COOLER BUILDING
- 2A. COOLER BUILDING ADJUTIONS
- 3. COOLER BUILDING
- 3A. BEEF COOLER BUILDING
- 4. STORAGE
- 4A. OLD INDRILL
- 4C. KOSHIN ROOM
- 5. ENGINE ROOM NO. 1
- 6A. GENERATING PLANT
- 6B. BOILER HOUSE NO. 4
- 6C. POWER PLANT OFFICE
- 15. SITTING ROOM & JEEP SHOP
- 15A. OLIVE ROOM
- 19. BARREL WASHIER
- 17. SEWAGE TREATMENT PLANT
- 17A. SEWAGE TREATMENT PLANT
- 18. MANUFACTURING BUILDING
- 19. SMOKEHOUSES
- 20. GARAGE
- 20A. GARAGE
- 20B. MACHINE SHOP
- 22. MANUFACTURING BUILDING
- 23. NEW INDRILL
- 35. TRANSFORMER BUILDING
- 35A. SUB STATION #28
- 36. PAINT SHOP
- 37. STORAGE
- 38. STORAGE SHED
- 38A. STORAGE
- 39. RESEARCH BUILDING
- 39A. STORAGE
- 41. GREASE RECOVERY
- 43. SPICE & PLASTICS
- 45. SEWAGE PUMP STATION
- 46. CONSTRUCTION STORAGE (EXISTING)



D.M. I. CO. (SHEET) 18.04 ACRES
HARTNER PROPERTY



GROUND FLOOR LEVEL
REV. AUG 82