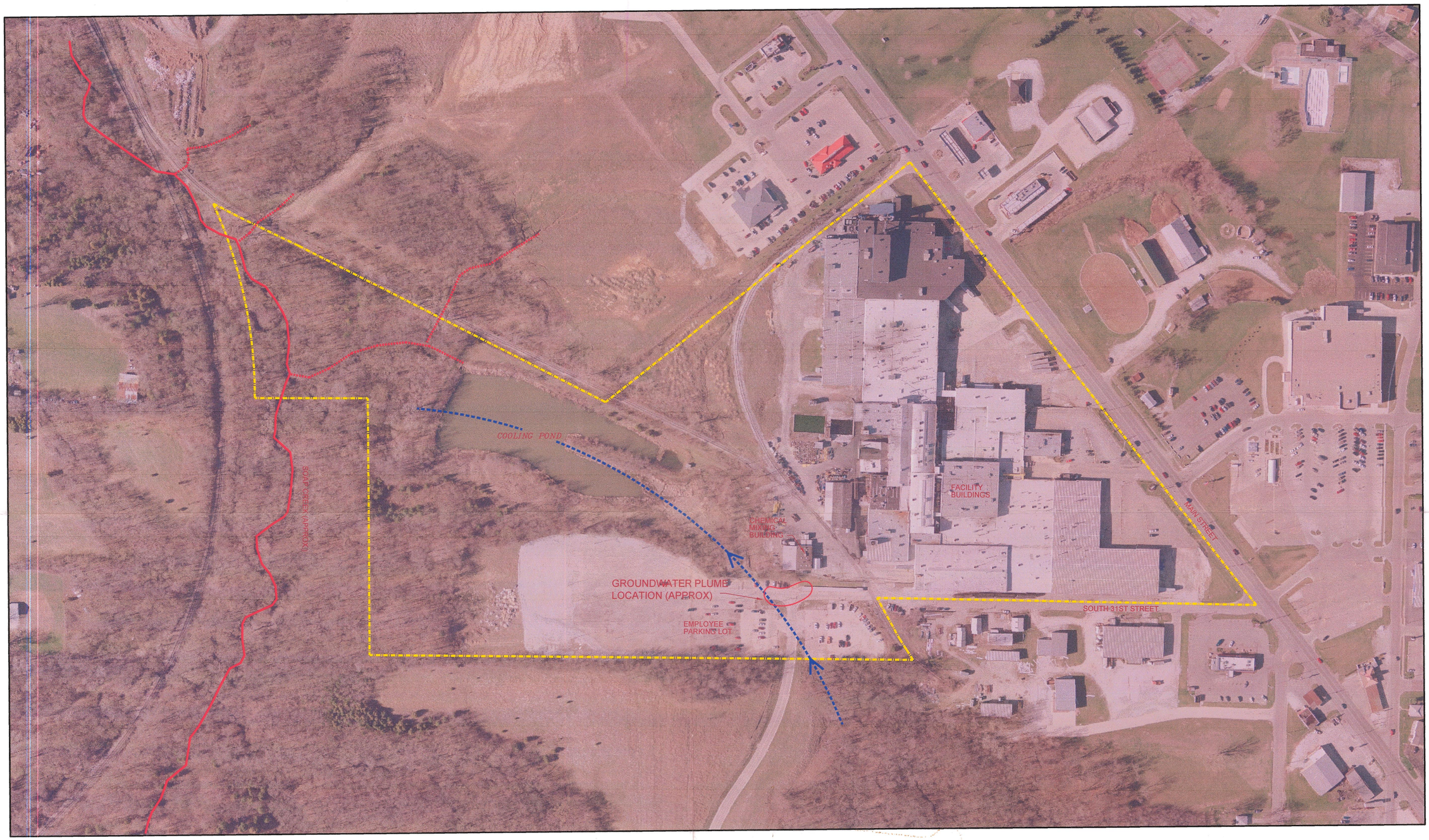


LEGEND:

- APPROXIMATE LOCATION OF CURRENT SURFACE DRAINAGE FEATURES
- APPROXIMATE LOCATION OF HISTORIC SURFACE DRAINAGE FEATURES
- APPROXIMATE LOCATION OF SOAP CREEK (DASHED LINES INDICATE EPHEMERAL DRAINAGES)
- APPROXIMATE LOCATION OF PROPERTY LINE

NOTE:

AERIAL PHOTOGRAPH TAKEN IN 2001.

200 0 200 400
SCALE FEET

N

464731

RCRA RECORDS

URS

8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: PROPERTY LINE AND FACILITY LAYOUT

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DAD	DAD
PROJECT NO. 16529904	DATE OCTOBER 2007	DRAWING NO. COVER

October 31, 2007 9:38:51 am (jam)
J:\3200 Main Street\16529904\Cover.dwg

LEGEND:

- MW-3 — EXISTING FILL MONITORING WELL
- MW-9 — EXISTING TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- P-7 — EXISTING FILL PIEZOMETER
- P-8 — EXISTING TILL PIEZOMETER
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST—ST — UNDERGROUND STORM SEWER LINE
- 620 — GROUNDWATER ELEVATION CONTOUR
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- FORMER DRUM STORAGE AREA

COOLING POND

COOLING POND STAFF GAUGE

MW-17A 619.39

MW-17B

MW-23B

MW-23A

CONTOUR ESTIMATED FROM HISTORIC PATTERNS

MW-16

P-7

MW-14

MW-8

MW-7

MW-3 627.50

MW-9

MW-10

MW-10A 622.80

MW-13A 621.09

MW-13

MW-13B

MW-18

HAZARDOUS WASTE STORAGE AREA

CHEMICAL MIXING BUILDING

MW-22

MW-2 632.80

MW-4 635.86

MW-1 635.67

FORMER MACHINE SHOP

P-8

MW-5

MW-12

APPROXIMATE LOCATION OF FORMER DRUM STORAGE AREA

MW-6B

MW-6A 637.57

RETAINING WALL

SIDEWALK

MW-11R

MW-15

MW-19

MW-20

MW-21

MAIN FACILITY BUILDING

SOUTH 31st STREET

DRAINAGE DITCH STAFF GAUGE

620 622 624 626 628 630 632 634 636 640

N

50 0 50 100

SCALE FEET

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	FILL GROUNDWATER ELEVATION CONTOUR MAP – APRIL 18, 2007

DRAWN BY	CHECKED BY	APPROVED BY
REK	ALS	DAD
PROJECT NO. 16529904	DATE JUNE 2007	DRAWING NO. 1

October 31, 2007 8:22:38 am (jam)
J:\3200 Main Street\16529904\October 2007\1.dwg

LEGEND:

- MW-3 — EXISTING FILL MONITORING WELL
- MW-9 — EXISTING TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- P-7 — EXISTING FILL PIEZOMETER
- P-8 — EXISTING TILL PIEZOMETER
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — UNDERGROUND STORM SEWER LINE
- 620 — GROUNDWATER ELEVATION CONTOUR
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- FORMER DRUM STORAGE AREA

COOLING POND

COOLING POND STAFF GAUGE

MW-17A

MW-17B 618.02

MW-23B

MW-23A

MW-16

MW-13A

MW-13

MW-13B 620.94

MW-10A

MW-10

MW-7 628.86

MW-5

MW-8 633.48

FORMER MACHINE SHOP

MW-12 637.63

HAZARDOUS WASTE STORAGE AREA

CHEMICAL MIXING BUILDING

MW-3

MW-9 625.46

MW-1

MW-4

MW-22 629.51

MW-2

APPROXIMATE LOCATION OF FORMER DRUM STORAGE AREA

MW-6B 634.36

MW-6A

RETAINING WALL

SIDEWALK

MAIN FACILITY BUILDING

P-4

P-5

MW-20 635.82

P-1

MW-21 637.74

SOUTH 31st STREET

P-3

P-2

MW-11R 621.51

MW-15 627.51

MW-18 620.38

MW-14

P-8 620.84

MW-19 620.24

DRAINAGE DITCH STAFF GAUGE

LINCOLN AVENUE

N

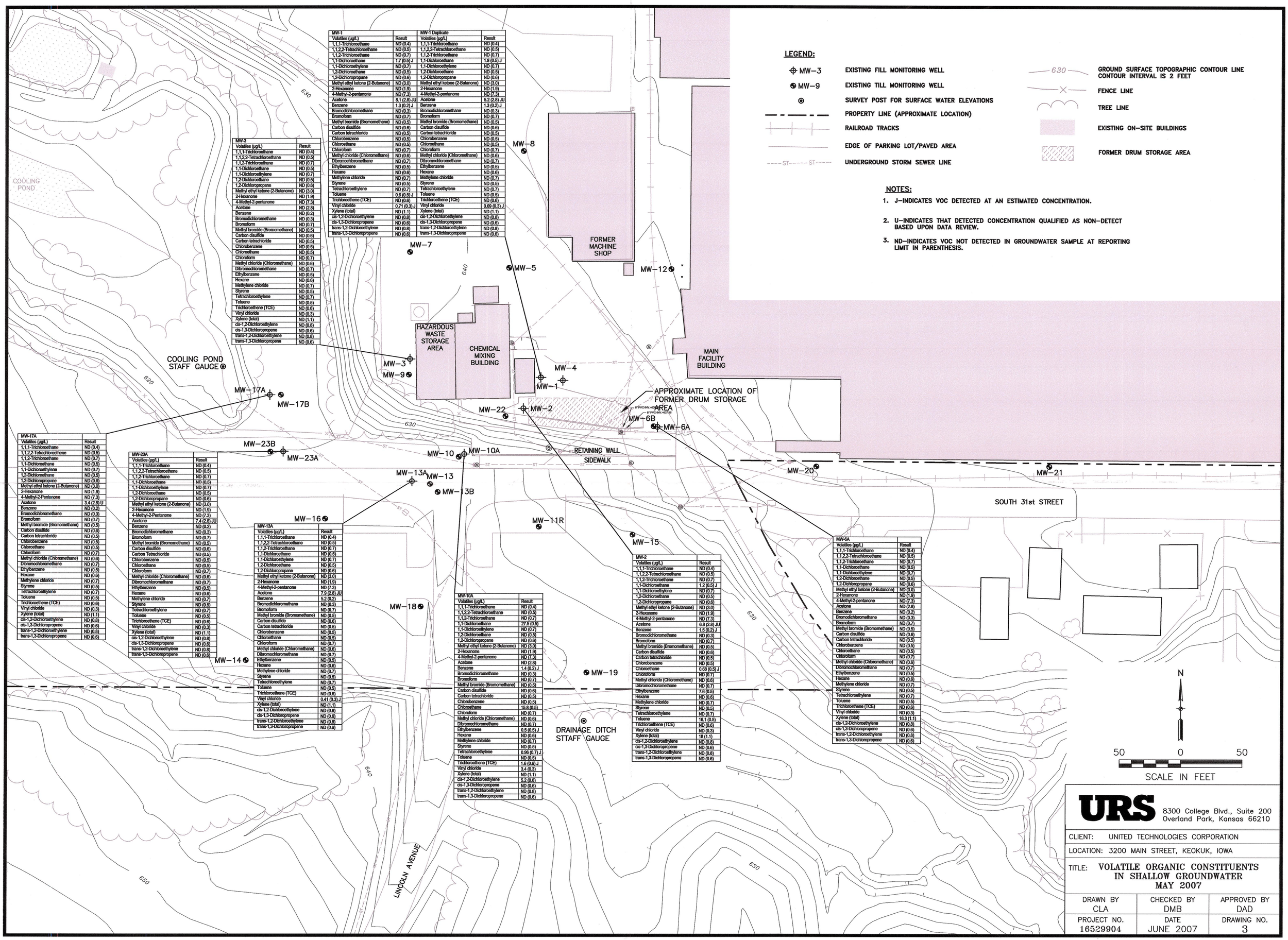
SCALE 50 0 50 100 FEET

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	TILL GROUNDWATER ELEVATION CONTOUR MAP – APRIL 18, 2007

DRAWN BY	CHECKED BY	APPROVED BY
REK	ALS	DAD
PROJECT NO.	DATE	DRAWING NO.
16529904	JUNE 2007	2

October 31, 2007 8:23:57 am (jam)
J:\3200 Main Street\16529904\October 2007\2.dwg



MW-1		MW-1 Duplicate	
Volatiles (µg/L)	Result	Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)	1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)	1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)	1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	1.7 (0.5) J	1,1-Dichloroethane	1.8 (0.5) J
1,1-Dichloroethylene	ND (0.7)	1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)	1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropene	ND (0.6)	1,2-Dichloropropene	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)	Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)	2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)	4-Methyl-2-pentanone	ND (7.3)
Acetone	8.1 (2.8) JU	Acetone	5.2 (2.8) JU
Benzene	1.3 (0.2) J	Benzene	1.3 (0.2) J
Bromodichloromethane	ND (0.3)	Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)	Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)	Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)	Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)	Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)	Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)	Chloroethane	ND (0.5)
Chloroform	ND (0.7)	Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)	Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)	Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)	Ethylbenzene	ND (0.5)
Hexane	ND (0.6)	Hexane	ND (0.6)
Methylene chloride	ND (0.7)	Methylene chloride	ND (0.7)
Styrene	ND (0.5)	Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)	Tetrachloroethylene	ND (0.7)
Toluene	0.6 (0.5) J	Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)	Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	0.71 (0.3) J	Vinyl chloride	0.69 (0.3) J
Xylene (total)	ND (1.1)	Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)	cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)	cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)	trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)	trans-1,3-Dichloropropene	ND (0.6)

MW-3	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-17A	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethene	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropene	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-Pentenone	ND (7.3)
Acetone	3.4 (2.8) U
Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-23A	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethene	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropene	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-Pentanone	ND (7.3)
Acetone	7.4 (2.8) JU
Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon Tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-13A	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	7.9 (2.8) JU
Benzene	5.2 (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	0.41 (0.3) J
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-10A	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	27.5 (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	1.4 (0.2) J
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	0.5 (0.5) J
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	0.96 (0.7) J
Toluene	ND (0.5)
Trichloroethene (TCE)	1.6 (0.6) J
Vinyl chloride	3.4 (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	5.2 (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-2	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	1.2 (0.5) J
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	6.8 (2.8) JU
Benzene	1.5 (0.2) J
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	0.68 (0.5) J
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	7.6 (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	16.1 (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	18 (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-6A	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	16.3 (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: VOLATILE ORGANIC CONSTITUENTS IN SHALLOW GROUNDWATER MAY 2007

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DMB	DAD
PROJECT NO. 16529904	DATE JUNE 2007	DRAWING NO. 3

October 31, 2007 9:42:04 am (jam)
J:\3200 Main Street\16529904\October 2007\3.dwg

LEGEND:

- MW–3 — EXISTING FILL MONITORING WELL
- MW–9 — EXISTING TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON–SITE BUILDINGS
- FORMER DRUM STORAGE AREA

NOTES:

1. J–INDICATES VOC DETECTED AT AN ESTIMATED CONCENTRATION.
2. U–INDICATES THAT DETECTED CONCENTRATION QUALIFIED AS NON–DETECT BASED UPON DATA REVIEW.
3. ND–INDICATES VOC NOT DETECTED IN GROUNDWATER SAMPLE AT REPORTING LIMIT IN PARENTHESIS.

MW-17B		MW-17B Duplicate	
Volatiles (µg/L)	Result	Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)	1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)	1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)	1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)	1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)	1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)	1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)	1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)	Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)	2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)	4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)	Acetone	ND (2.8)
Benzene	ND (0.2)	Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)	Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)	Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)	Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)	Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)	Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)	Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)	Chloroethane	ND (0.5)
Chloroform	ND (0.7)	Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)	Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)	Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)	Ethylbenzene	ND (0.5)
Hexane	ND (0.6)	Hexane	ND (0.6)
Methylene chloride	ND (0.7)	Methylene chloride	ND (0.7)
Styrene	ND (0.5)	Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)	Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)	Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)	Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)	Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)	Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)	cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)	cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)	trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)	trans-1,3-Dichloropropene	ND (0.6)

MW-7	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	0.88 J
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	0.87 UJ
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	0.98 UJ
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	5.7
Toluene	ND (0.5)
Trichloroethene (TCE)	15.5
Vinyl chloride	4.6
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	62
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	0.92 J
trans-1,3-Dichloropropene	ND (0.6)

MW-23B	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	0.4 (0.2) J
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-13	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	40.4 (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	8.4 (0.7)
1,1-Dichloroethane	129 (0.5)
1,1-Dichloroethylene	208 (0.7)
1,2-Dichloroethane	8.6 (0.5)
1,2-Dichloropropane	20.3 (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	8.8 (2.8) JU
Benzene	4.6 (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	1.2 (0.6) J
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	0.96 (0.5) J
Chloroform	3.6 (0.7) U
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	4.8 (0.5)
Hexane	ND (0.6)
Methylene chloride	11300 (0.7) U
Styrene	ND (0.5)
Tetrachloroethylene	437 (0.7)
Toluene	2.4 (0.5)
Trichloroethene (TCE)	876 (0.6)
Vinyl chloride	27.7 (0.3)
Xylene (total)	4.3 (1.1) J
cis-1,2-Dichloroethylene	537 (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	5.9 (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-16	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-13B	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	1.2 (0.7) JU
Styrene	ND (0.5)
Tetrachloroethylene	0.85 (0.7) J
Toluene	ND (0.5)
Trichloroethene (TCE)	1.3 (0.6) J
Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-10	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	364 (190) J
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	5.3 (0.7)
1,1-Dichloroethane	28.7 (0.5)
1,1-Dichloroethylene	600 (340) J
1,2-Dichloroethane	3.2 (0.5)
1,2-Dichloropropane	11.8 (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	0.74 (0.2) J
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	0.55 (0.5) J
Chloroform	3.7 (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	8680 (340) U
Styrene	ND (0.5)
Tetrachloroethylene	1260 (370)
Toluene	ND (0.5)
Trichloroethene (TCE)	2040 (320)
Vinyl chloride	4.4 (0.3)
Xylene (total)	2.8 (1.1) J
cis-1,2-Dichloroethylene	46.5 (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	1.9 (0.8) J
trans-1,3-Dichloropropene	ND (0.6)

MW-18S	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	2.9 (2.8) JU
Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-19	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	0.6 (0.5) J
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	0.49 (0.2) J
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

MW-20	
Volatiles (µg/L)	Result
1,1,1-Trichloroethane	ND (0.4)
1,1,2,2-Tetrachloroethane	ND (0.5)
1,1,2-Trichloroethane	ND (0.7)
1,1-Dichloroethane	ND (0.5)
1,1-Dichloroethylene	ND (0.7)
1,2-Dichloroethane	ND (0.5)
1,2-Dichloropropane	ND (0.6)
Methyl ethyl ketone (2-Butanone)	ND (3.0)
2-Hexanone	ND (1.9)
4-Methyl-2-pentanone	ND (7.3)
Acetone	ND (2.8)
Benzene	ND (0.2)
Bromodichloromethane	ND (0.3)
Bromoform	ND (0.7)
Methyl bromide (Bromomethane)	ND (0.5)
Carbon disulfide	ND (0.6)
Carbon tetrachloride	ND (0.5)
Chlorobenzene	ND (0.5)
Chloroethane	ND (0.5)
Chloroform	ND (0.7)
Methyl chloride (Chloromethane)	ND (0.6)
Dibromochloromethane	ND (0.7)
Ethylbenzene	ND (0.5)
Hexane	ND (0.6)
Methylene chloride	ND (0.7)
Styrene	ND (0.5)
Tetrachloroethylene	ND (0.7)
Toluene	ND (0.5)
Trichloroethene (TCE)	ND (0.6)
Vinyl chloride	ND (0.3)
Xylene (total)	ND (1.1)
cis-1,2-Dichloroethylene	ND (0.8)
cis-1,3-Dichloropropene	ND (0.6)
trans-1,2-Dichloroethylene	ND (0.8)
trans-1,3-Dichloropropene	ND (0.6)

COOLING POND

COOLING POND STAFF GAUGE

MW–17A

MW–17B

MW–23B

MW–23A

MW–14

MW–16

MW–13A

MW–13

MW–13B

MW–18

MW–7

MW–8

MW–5

MW–12

FORMER MACHINE SHOP

HAZARDOUS WASTE STORAGE AREA

CHEMICAL MIXING BUILDING

MAIN FACILITY BUILDING

MW–3

MW–9

MW–4

MW–1

MW–22

MW–2

APPROXIMATE LOCATION OF FORMER DRUM STORAGE AREA

MW–6B

MW–6A

MW–10

MW–10A

MW–11R

MW–15

MW–19

DRAINAGE DITCH STAFF GAUGE

MW–20

MW–21

SOUTH 31st STREET

LINCOLN AVENUE

630

640

620

650

N

50 0 50

SCALE IN FEET

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: VOLATILE ORGANIC CONSTITUENTS IN DEEP GROUNDWATER MAY 2007

DRAWN BY	CHECKED BY	APPROVED BY
CLA	ALS	DAD
PROJECT NO. 16529904	DATE JUNE 2007	DRAWING NO. 4

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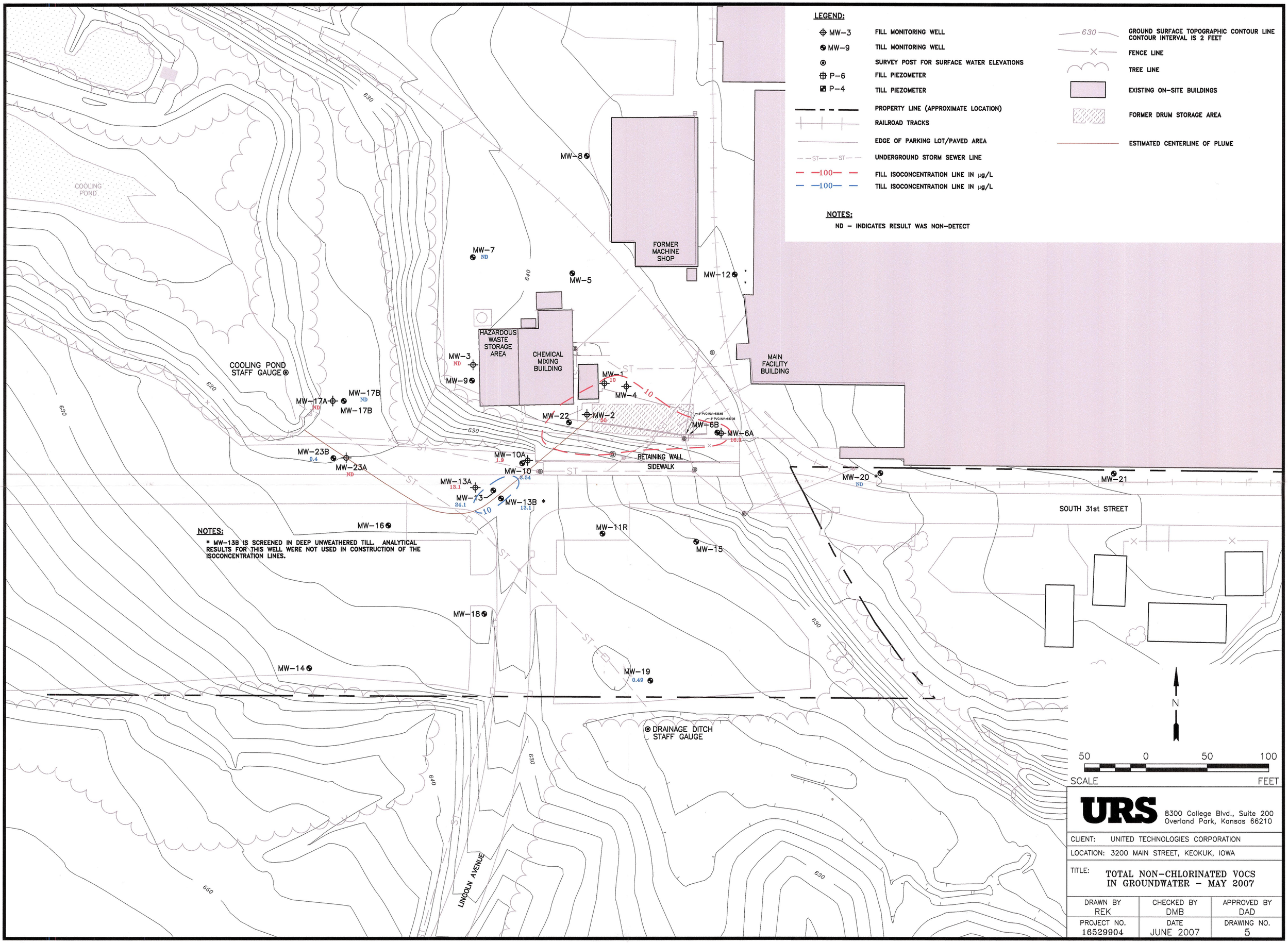

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	TOTAL NON-CHLORINATED VOCS IN GROUNDWATER - MAY 2007

DRAWN BY	CHECKED BY	APPROVED BY
REK	DMB	DAD
PROJECT NO.	DATE	DRAWING NO.
16529904	JUNE 2007	5

October 31, 2007 10:19:07 am (jam)
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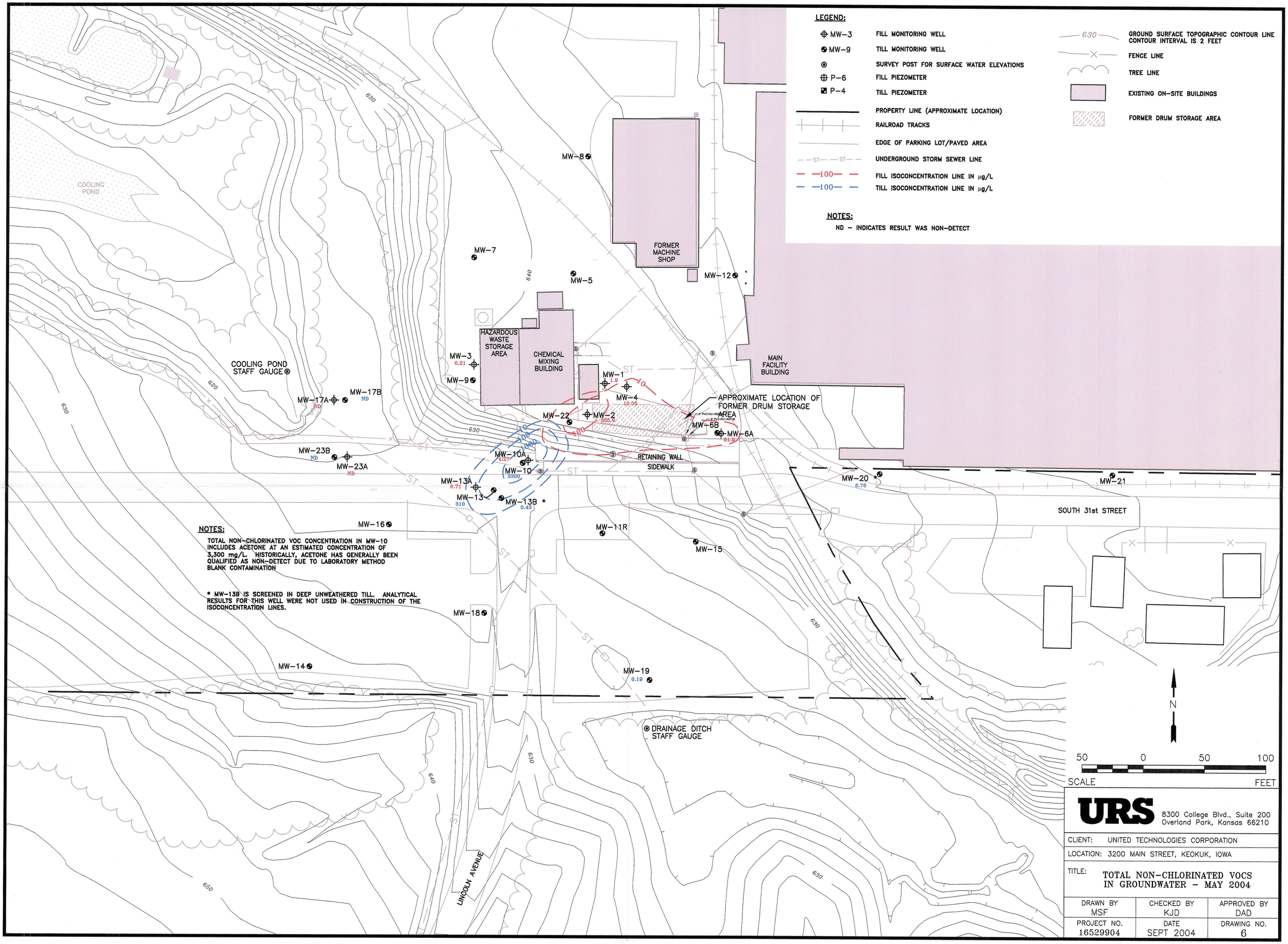

URS

8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	TOTAL NON-CHLORINATED VOCS IN GROUNDWATER - MAY 2004

DRAWN BY	CHECKED BY	APPROVED BY
MSF	KJD	DAD
PROJECT NO.	DATE	DRAWING NO.
16529904	SEPT 2004	6

October 31, 2007 10:20:14 am (jam)
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LEGEND:

- MW-3 — FILL MONITORING WELL
- MW-9 — TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- P-6 — FILL PIEZOMETER
- P-4 — TILL PIEZOMETER
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- —100— FILL ISOCONCENTRATION LINE IN µg/L
- —100— TILL ISOCONCENTRATION LINE IN µg/L
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- FORMER DRUM STORAGE AREA
- ESTIMATED CENTERLINE OF PLUME

NOTES:

ND – INDICATES RESULT WAS NON-DETECT

NOTES:

* MW-13B IS SCREENED IN DEEP UNWEATHERED TILL. ANALYTICAL RESULTS FOR THIS WELL WERE NOT USED IN CONSTRUCTION OF THE ISOCONCENTRATION LINES.

COOLING POND

COOLING POND STAFF GAUGE

FORMER MACHINE SHOP

HAZARDOUS WASTE STORAGE AREA

CHEMICAL MIXING BUILDING

MAIN FACILITY BUILDING

RETAINING WALL

SIDEWALK

SOUTH 31st STREET

LINCOLN AVENUE

DRAINAGE DITCH STAFF GAUGE

MW-1 2.41
MW-2 1.68
MW-3 ND
MW-4
MW-5
MW-6A ND
MW-6B
MW-7 91.4
MW-8
MW-9
MW-10 13050
MW-10A 54.56
MW-11R
MW-12
MW-13 13599
MW-13A 0.41
MW-13B * 3.35
MW-14
MW-15
MW-16
MW-17A ND
MW-17B ND
MW-18
MW-19 0.6
MW-20 ND
MW-21
MW-22
MW-23A ND
MW-23B ND

N

50 0 50 100

SCALE FEET

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	TOTAL CHLORINATED VOCS IN GROUNDWATER – MAY 2007

DRAWN BY	CHECKED BY	APPROVED BY
REK	DMB	DAD
PROJECT NO.	DATE	DRAWING NO.
16529904	JUNE 2007	7

October 31, 2007 8:47:31 am (jam)
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LEGEND:

- MW-3 — FILL MONITORING WELL
- MW-9 — TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- P-6 — FILL PIEZOMETER
- P-4 — TILL PIEZOMETER
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- —100— FILL ISOCONCENTRATION LINE IN µg/L
- —100— TILL ISOCONCENTRATION LINE IN µg/L
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- FORMER DRUM STORAGE AREA

NOTES:

ND – INDICATES RESULT WAS NON-DETECT

NOTES:

* MW-13B IS SCREENED IN DEEP UNWEATHERED TILL. ANALYTICAL RESULTS FOR THIS WELL WERE NOT USED IN CONSTRUCTION OF THE ISOCONCENTRATION LINES.

COOLING POND

COOLING POND STAFF GAUGE

FORMER MACHINE SHOP

HAZARDOUS WASTE STORAGE AREA

CHEMICAL MIXING BUILDING

MAIN FACILITY BUILDING

APPROXIMATE LOCATION OF FORMER DRUM STORAGE AREA

RETAINING WALL

SIDEWALK

SOUTH 31st STREET

LINCOLN AVENUE

DRAINAGE DITCH STAFF GAUGE

MW-1 6.3
MW-2 2.1
MW-3 ND
MW-4 4.98
MW-5
MW-6A ND
MW-6B
MW-7
MW-8
MW-9
MW-10
MW-10A 24.59
MW-11R
MW-12
MW-13 12617
MW-13A 1.73
MW-13B * 2.18
MW-14
MW-15
MW-16
MW-17A ND
MW-17B ND
MW-18
MW-19 0.56
MW-20 ND
MW-21
MW-22
MW-23A ND
MW-23B ND

N

50 0 50 100

SCALE FEET

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	TOTAL CHLORINATED VOCS IN GROUNDWATER – MAY 2004

DRAWN BY	CHECKED BY	APPROVED BY
MSF	KJD	DAD
PROJECT NO. 16529904	DATE SEPT 2004	DRAWING NO. 8

October 31, 2007 8:49:27 am (jam)
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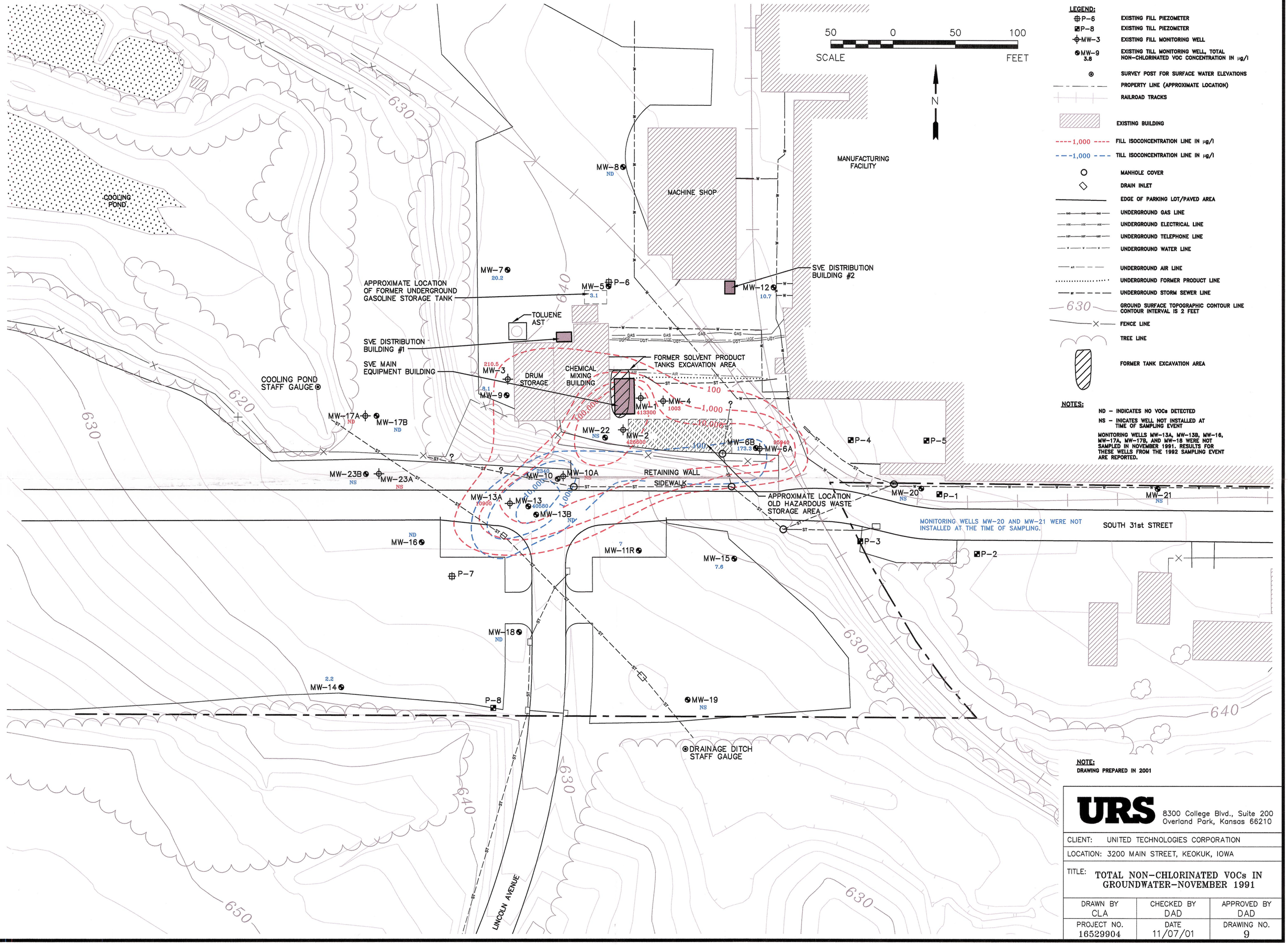

NOTE:
DRAWING PREPARED IN 2001

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	TOTAL NON-CHLORINATED VOCs IN GROUNDWATER-NOVEMBER 1991

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DAD	DAD
PROJECT NO. 16529904	DATE 11/07/01	DRAWING NO. 9

October 31, 2007 8:51:44 am (jam)
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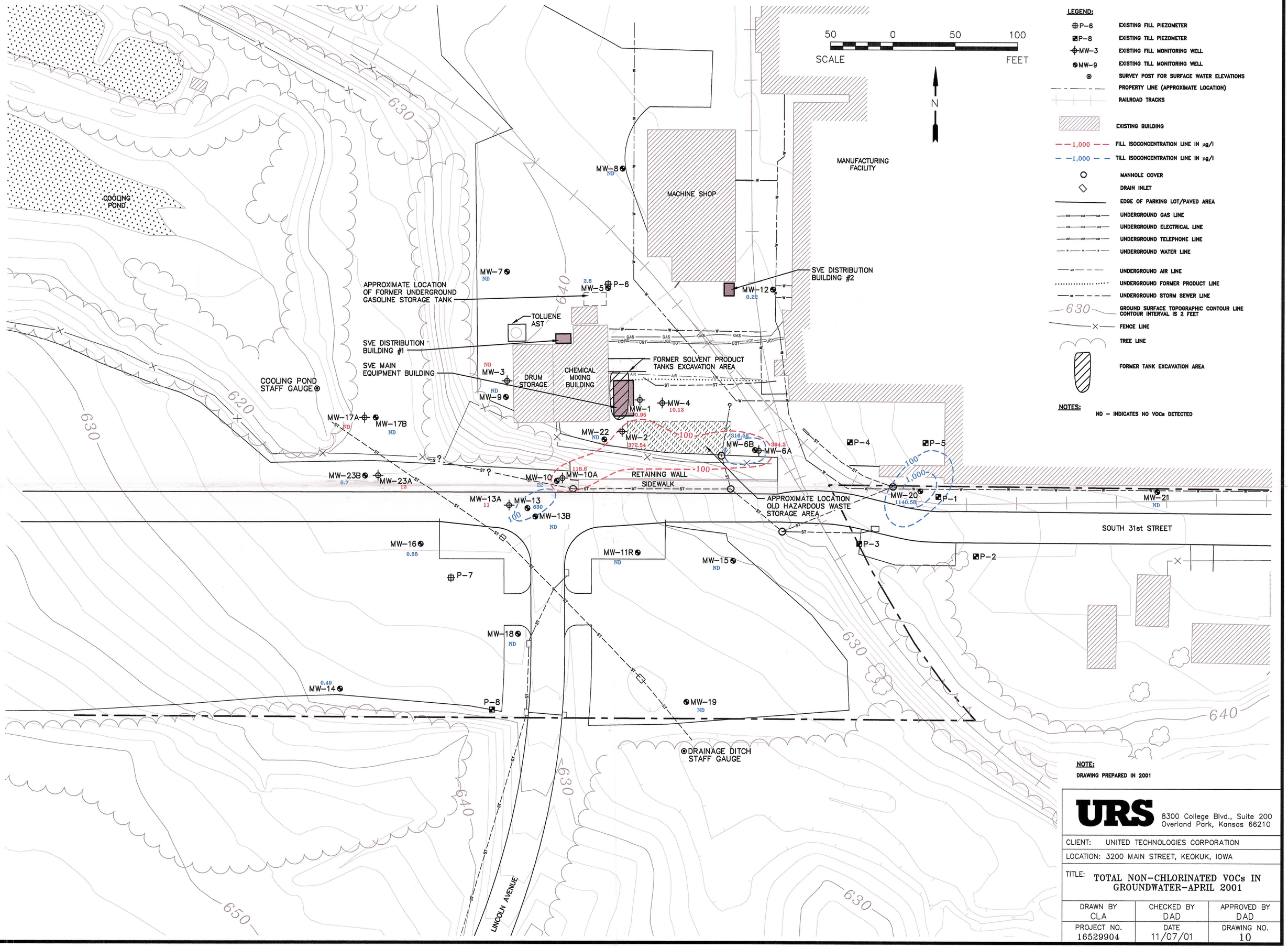

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: TOTAL NON-CHLORINATED VOCs IN GROUNDWATER-APRIL 2001

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DAD	DAD
PROJECT NO. 16529904	DATE 11/07/01	DRAWING NO. 10

October 31, 2007 8:53:44 am (jam)
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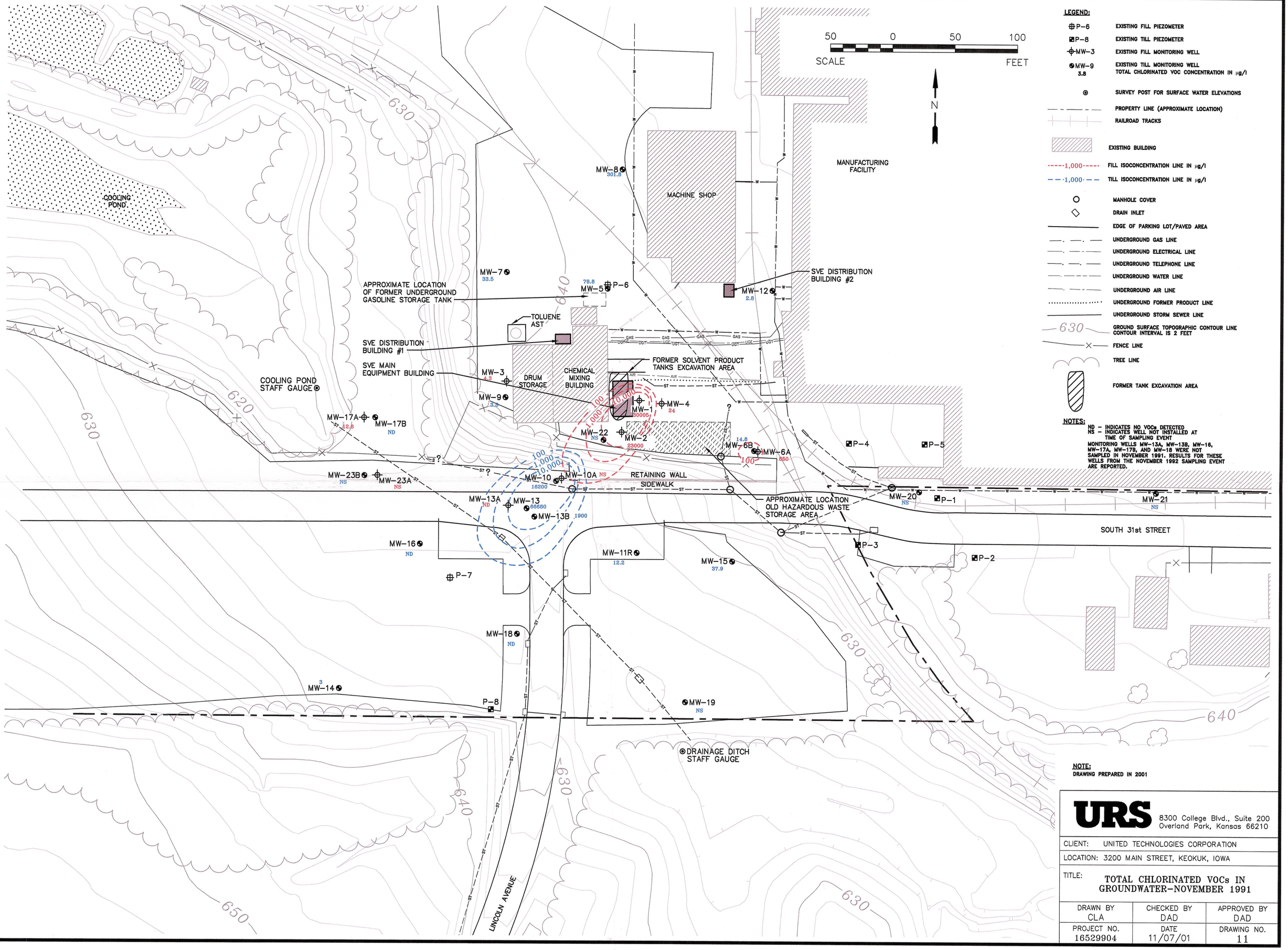

LEGEND:

- P-6 — EXISTING FILL PIEZOMETER
- P-8 — EXISTING TILL PIEZOMETER
- MW-3 — EXISTING FILL MONITORING WELL
- MW-9 3.8 — EXISTING TILL MONITORING WELL, TOTAL CHLORINATED VOC CONCENTRATION IN µg/l
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EXISTING BUILDING
- 1,000 — FILL ISOCONCENTRATION LINE IN µg/l
- 1,000 — TILL ISOCONCENTRATION LINE IN µg/l
- MANHOLE COVER
- DRAIN INLET
- EDGE OF PARKING LOT/PAVED AREA
- UNDERGROUND GAS LINE
- UNDERGROUND ELECTRICAL LINE
- UNDERGROUND TELEPHONE LINE
- UNDERGROUND WATER LINE
- UNDERGROUND AIR LINE
- UNDERGROUND FORMER PRODUCT LINE
- UNDERGROUND STORM SEWER LINE
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE, CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- FORMER TANK EXCAVATION AREA

NOTES:

ND - INDICATES NO VOCs DETECTED
NS - INDICATES WELL NOT INSTALLED AT TIME OF SAMPLING EVENT
MONITORING WELLS MW-13A, MW-13B, MW-16, MW-17A, MW-17B, AND MW-18 WERE NOT SAMPLED IN NOVEMBER 1991. RESULTS FOR THESE WELLS FROM THE NOVEMBER 1992 SAMPLING EVENT ARE REPORTED.

NOTE:

DRAWING PREPARED IN 2001

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION		
LOCATION: 3200 MAIN STREET, KEOKUK, IOWA		
TITLE: TOTAL CHLORINATED VOCs IN GROUNDWATER–NOVEMBER 1991		
DRAWN BY: CLA	CHECKED BY: DAD	APPROVED BY: DAD
PROJECT NO.: 16529904	DATE: 11/07/01	DRAWING NO.: 11

October 31, 2007 8:55:25 am (jam)
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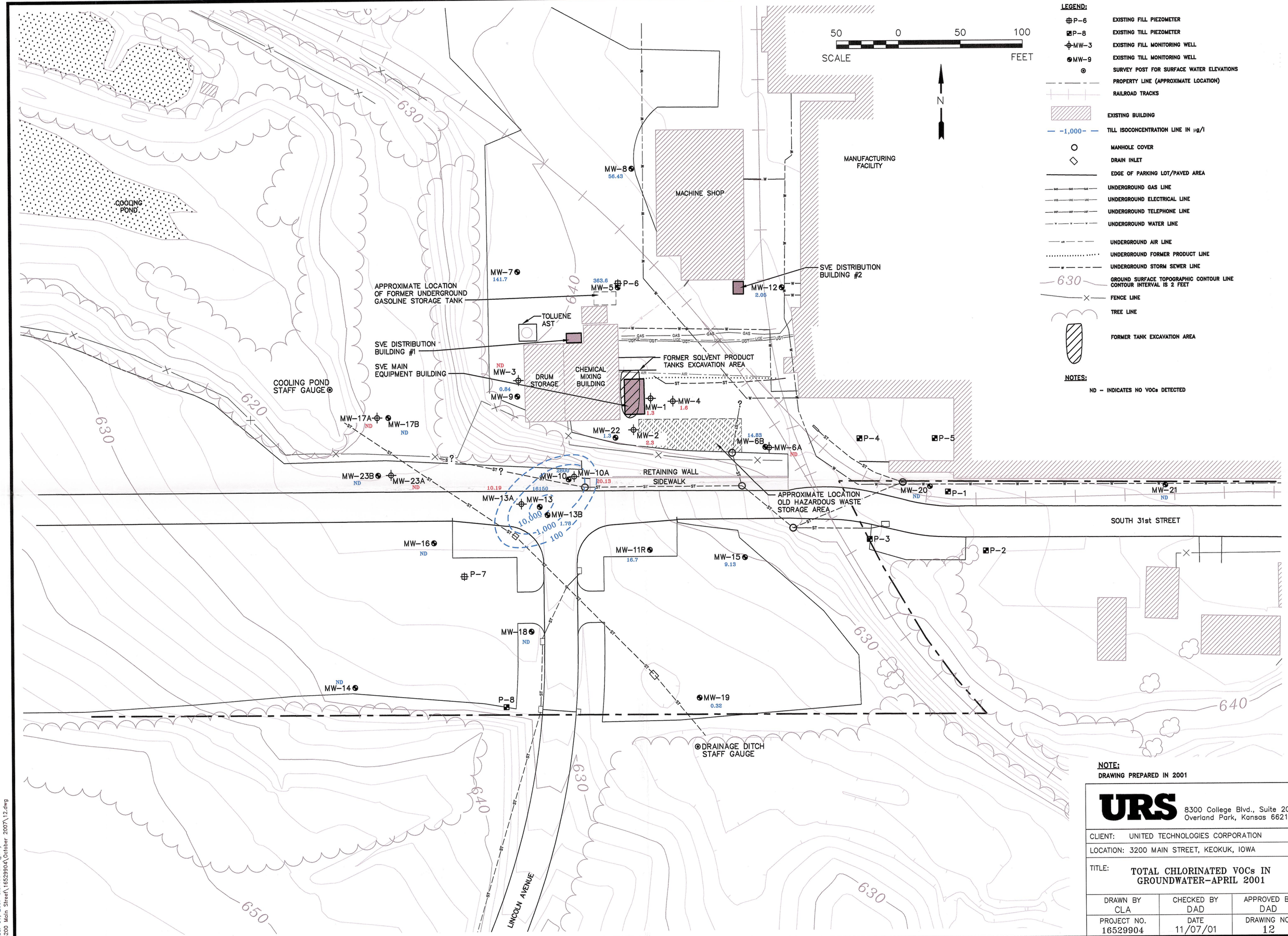

NOTE:
DRAWING PREPARED IN 2001

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: TOTAL CHLORINATED VOCs IN GROUNDWATER–APRIL 2001

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DAD	DAD
PROJECT NO.	DATE	DRAWING NO.
16529904	11/07/01	12

October 31, 2007 8:57:06 am (jam)
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LEGEND:

- MW-3 — FILL MONITORING WELL
- MW-9 — TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- P-6 — FILL PIEZOMETER
- P-4 — TILL PIEZOMETER
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- ESTIMATED CENTERLINE OF PLUME
- 100 — FILL ISOCONCENTRATION LINE IN µg/L
- 100 — TILL ISOCONCENTRATION LINE IN µg/L

NOTES:

ND – INDICATES RESULT WAS NON-DETECT
J – INDICATES ESTIMATED CONCENTRATION
U – QUALIFIED AS NON-DETECT

ESTIMATED LEADING EDGE OF THE PLUME
(PCE MCL = 5µg/L)
- 5 — FILL
- 5 — TILL

MW-7	
Volatiles (µg/L)	Result
Tetrachloroethylene	5.7
Trichloroethene (TCE)	15.5
cis-1,2-Dichloroethene	62.2
Methylene chloride	ND (0.7)
Vinyl chloride	4.6
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-3	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-10	
Volatiles (µg/L)	Result
Tetrachloroethylene	1260
Trichloroethene (TCE)	2040
cis-1,2-Dichloroethene	46.5
Methylene chloride	8680
Vinyl chloride	4.4
Total BTEX	3.54
Benzene	0.74J
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	2.8J

MW-10A	
Volatiles (µg/L)	Result
Tetrachloroethylene	0.98U
Trichloroethene (TCE)	1.6J
cis-1,2-Dichloroethene	5.2
Methylene chloride	ND (0.7)
Vinyl chloride	3.4
Total BTEX	1.9
Benzene	1.4J
Toluene	ND (0.5)
Ethelybenzene	0.5J
Xylenes (total)	ND (1.1)

MW-17A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-17B	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23B	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	0.4
Benzene	0.4J
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-16	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	0.41J
Total BTEX	5.2
Benzene	5.2
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13	
Volatiles (µg/L)	Result
Tetrachloroethylene	437
Trichloroethene (TCE)	876
cis-1,2-Dichloroethene	537
Methylene chloride	11300
Vinyl chloride	27.7
Total BTEX	16.1
Benzene	4.8
Toluene	2.4
Ethelybenzene	4.8
Xylenes (total)	4.3

MW-13B	
Volatiles (µg/L)	Result
Tetrachloroethylene	0.85J
Trichloroethene (TCE)	1.3J
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	1.2UJ
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-19	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	0.49
Benzene	0.49J
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-1	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	0.71J
Total BTEX	1.8
Benzene	1.3J
Toluene	0.5J
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-2	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	41.7
Benzene	ND (0.2)
Toluene	16.1
Ethelybenzene	7.8
Xylenes (total)	18

MW-6A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	16.3
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	16.3

MW-20	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

COOLING POND
COOLING POND STAFF GAUGE
FORMER MACHINE SHOP
HAZARDOUS WASTE STORAGE AREA
CHEMICAL MIXING BUILDING
MAIN FACILITY BUILDING
RETAINING WALL
SIDEWALK
DRAINAGE DITCH STAFF GAUGE
SOUTH 31st STREET
LINCOLN AVENUE
MCL 5
100
10
STATION 0.0
A
A'
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6A
MW-6B
MW-7
MW-8
MW-9
MW-10
MW-10A
MW-11R
MW-12
MW-13
MW-13A
MW-13B
MW-14
MW-15
MW-16
MW-17A
MW-17B
MW-18
MW-19
MW-20
MW-21
MW-22
MW-23A
MW-23B
630
640
650
ST

50 0 50 100
SCALE FEET

N

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	TETRACHLOROETHYLENE IN GROUNDWATER – MAY 2007

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DMB	DAD
PROJECT NO.	DATE	DRAWING NO.
16529904	OCTOBER 2007	13

October 31, 2007 8:59:27 am (jam)
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LEGEND:

- MW-3 — FILL MONITORING WELL
- MW-9 — TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- P-6 — FILL PIEZOMETER
- P-4 — TILL PIEZOMETER
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- ESTIMATED CENTERLINE OF PLUME
- 100 — FILL ISOCONCENTRATION LINE IN µg/L
- 100 — TILL ISOCONCENTRATION LINE IN µg/L

NOTES:

ND – INDICATES RESULT WAS NON-DETECT
J – INDICATES ESTIMATED CONCENTRATION
U – QUALIFIED AS NON-DETECT

ESTIMATED LEADING EDGE OF THE PLUME
(TCE MCL = 5µg/L)
- 5 — FILL
- 5 — TILL

MW-7	
Volatiles (µg/L)	Result
Tetrachloroethylene	5.7
Trichloroethene (TCE)	15.5
cis-1,2-Dichloroethene	62.2
Methylene chloride	ND (0.7)
Vinyl chloride	4.6
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-3	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-10	
Volatiles (µg/L)	Result
Tetrachloroethylene	1280
Trichloroethene (TCE)	2040
cis-1,2-Dichloroethene	46.5
Methylene chloride	8680
Vinyl chloride	4.4
Total BTEX	3.64
Benzene	0.74J
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	2.8J

MW-10A	
Volatiles (µg/L)	Result
Tetrachloroethylene	0.96J
Trichloroethene (TCE)	1.6J
cis-1,2-Dichloroethene	8.2
Methylene chloride	ND (0.7)
Vinyl chloride	3.4
Total BTEX	1.9
Benzene	1.4J
Toluene	ND (0.5)
Etheylbenzene	0.5J
Xylenes (total)	ND (1.1)

MW-1	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	0.71J
Total BTEX	1.9
Benzene	1.3J
Toluene	0.6J
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-2	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	41.7
Benzene	ND (0.2)
Toluene	16.1
Etheylbenzene	7.6
Xylenes (total)	18

MW-17A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-17B	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23B	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	0.4
Benzene	0.4J
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-16	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	0.41J
Total BTEX	5.2
Benzene	5.2
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13	
Volatiles (µg/L)	Result
Tetrachloroethylene	437
Trichloroethene (TCE)	876
cis-1,2-Dichloroethene	537
Methylene chloride	11300
Vinyl chloride	27.7
Total BTEX	16.1
Benzene	4.6
Toluene	2.4
Etheylbenzene	4.8
Xylenes (total)	4.3

MW-13B	
Volatiles (µg/L)	Result
Tetrachloroethylene	0.88J
Trichloroethene (TCE)	1.3J
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	1.2UJ
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-19	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	0.49
Benzene	0.49J
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-6A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	16.3
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	16.3

MW-20	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

COOLING POND
COOLING POND STAFF GAUGE
FORMER MACHINE SHOP
HAZARDOUS WASTE STORAGE AREA
CHEMICAL MIXING BUILDING
MAIN FACILITY BUILDING
STATION 0.0
RETAINING WALL
SIDEWALK
DRAINAGE DITCH STAFF GAUGE
LINCOLN AVENUE
SOUTH 31st STREET
MW-1 MW-2 MW-3 MW-4 MW-5 MW-6A MW-6B MW-7 MW-8 MW-9 MW-10 MW-10A MW-11R MW-12 MW-13 MW-13A MW-13B MW-14 MW-15 MW-16 MW-17A MW-17B MW-18 MW-19 MW-20 MW-21 MW-22 MW-23A MW-23B
A A'
MCL 5
1,000
100
10
630 640 650 ST

N

50 0 50 100
SCALE FEET

URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION
LOCATION: 3200 MAIN STREET, KEOKUK, IOWA
TITLE: TRICHLOROETHENE IN GROUNDWATER – MAY 2007

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DMB	DAD
PROJECT NO.	DATE	DRAWING NO.
16529904	OCTOBER 2007	14

October 31, 2007 9:01:08 am (jam)
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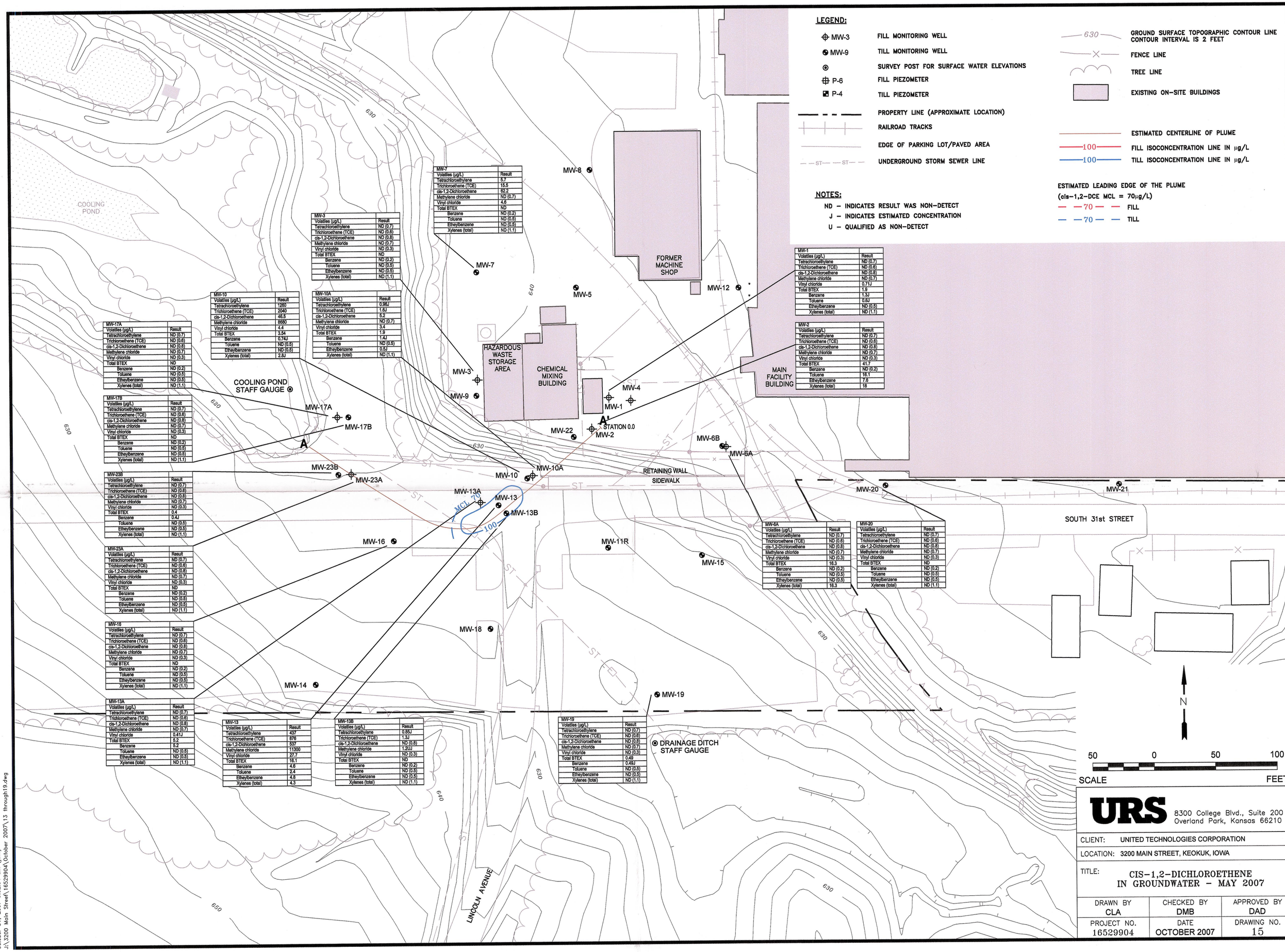
LEGEND:
MW-3 FILL MONITORING WELL
MW-9 TILL MONITORING WELL
SURVEY POST FOR SURFACE WATER ELEVATIONS
P-6 FILL PIEZOMETER
P-4 TILL PIEZOMETER
PROPERTY LINE (APPROXIMATE LOCATION)
RAILROAD TRACKS
EDGE OF PARKING LOT/PAVED AREA
UNDERGROUND STORM SEWER LINE
630 GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
FENCE LINE
TREE LINE
EXISTING ON-SITE BUILDINGS
ESTIMATED CENTERLINE OF PLUME
100 FILL ISOCONCENTRATION LINE IN µg/L
100 TILL ISOCONCENTRATION LINE IN µg/L
ESTIMATED LEADING EDGE OF THE PLUME
(cis-1,2-DCE MCL = 70µg/L)
70 FILL
70 TILL
NOTES:
ND – INDICATES RESULT WAS NON-DETECT
J – INDICATES ESTIMATED CONCENTRATION
U – QUALIFIED AS NON-DETECT
COOLING POND
COOLING POND STAFF GAUGE
FORMER MACHINE SHOP
HAZARDOUS WASTE STORAGE AREA
CHEMICAL MIXING BUILDING
MAIN FACILITY BUILDING
RETAINING WALL
SIDEWALK
SOUTH 31st STREET
LINCOLN AVENUE
DRAINAGE DITCH STAFF GAUGE
MW-1 Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride 0.71J; Total BTEX 1.9; Benzene 1.3J; Toluene 0.6J; Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-2 Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX 41.7; Benzene ND (0.2); Toluene 16.1; Etheylbenzene 7.6; Xylenes (total) 18
MW-3 Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX ND; Benzene ND (0.2); Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-7 Volatiles (µg/L) Result: Tetrachloroethylene 5.7; Trichloroethene (TCE) 15.5; cis-1,2-Dichloroethene 82.2; Methylene chloride ND (0.7); Vinyl chloride 4.6; Total BTEX ND; Benzene ND (0.2); Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-10 Volatiles (µg/L) Result: Tetrachloroethylene 1260; Trichloroethene (TCE) 2040; cis-1,2-Dichloroethene 46.5; Methylene chloride 8680; Vinyl chloride 4.4; Total BTEX 3.54; Benzene 0.74J; Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) 2.8J
MW-10A Volatiles (µg/L) Result: Tetrachloroethylene 0.98J; Trichloroethene (TCE) 1.6J; cis-1,2-Dichloroethene 5.2; Methylene chloride ND (0.7); Vinyl chloride 3.4; Total BTEX 1.9; Benzene 1.4J; Toluene ND (0.5); Etheylbenzene 0.5J; Xylenes (total) ND (1.1)
MW-17A Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX ND; Benzene ND (0.2); Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-17B Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX ND; Benzene ND (0.2); Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-23B Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX 0.4; Benzene 0.4J; Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-23A Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX ND; Benzene ND (0.2); Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-16 Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX ND; Benzene ND (0.2); Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-13A Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride 0.41J; Total BTEX 5.2; Benzene 5.2; Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-13 Volatiles (µg/L) Result: Tetrachloroethylene 437; Trichloroethene (TCE) 876; cis-1,2-Dichloroethene 537; Methylene chloride 11300; Vinyl chloride 27.7; Total BTEX 16.1; Benzene 4.6; Toluene 2.4; Etheylbenzene 4.8; Xylenes (total) 4.3
MW-13B Volatiles (µg/L) Result: Tetrachloroethylene 0.85J; Trichloroethene (TCE) 1.3J; cis-1,2-Dichloroethene ND (0.8); Methylene chloride 1.2UJ; Vinyl chloride ND (0.3); Total BTEX ND; Benzene ND (0.2); Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-19 Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX 0.49; Benzene 0.49J; Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-6A Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX 16.3; Benzene ND (0.2); Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) 16.3
MW-20 Volatiles (µg/L) Result: Tetrachloroethylene ND (0.7); Trichloroethene (TCE) ND (0.6); cis-1,2-Dichloroethene ND (0.8); Methylene chloride ND (0.7); Vinyl chloride ND (0.3); Total BTEX ND; Benzene ND (0.2); Toluene ND (0.5); Etheylbenzene ND (0.5); Xylenes (total) ND (1.1)
MW-1 MW-2 MW-3 MW-4 MW-5 MW-6A MW-6B MW-7 MW-8 MW-9 MW-10 MW-10A MW-11R MW-12 MW-13 MW-13A MW-13B MW-14 MW-15 MW-16 MW-17A MW-17B MW-18 MW-19 MW-20 MW-21 MW-22 MW-23A MW-23B
STATION 0.0
A A'
N
50 0 50 100
SCALE FEET
URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210
CLIENT: UNITED TECHNOLOGIES CORPORATION
LOCATION: 3200 MAIN STREET, KEOKUK, IOWA
TITLE: CIS-1,2-DICHLOROETHENE IN GROUNDWATER - MAY 2007
DRAWN BY CLA
CHECKED BY DMB
APPROVED BY DAD
PROJECT NO. 16529904
DATE OCTOBER 2007
DRAWING NO. 15
October 31, 2007 9:02:34 am (jam)
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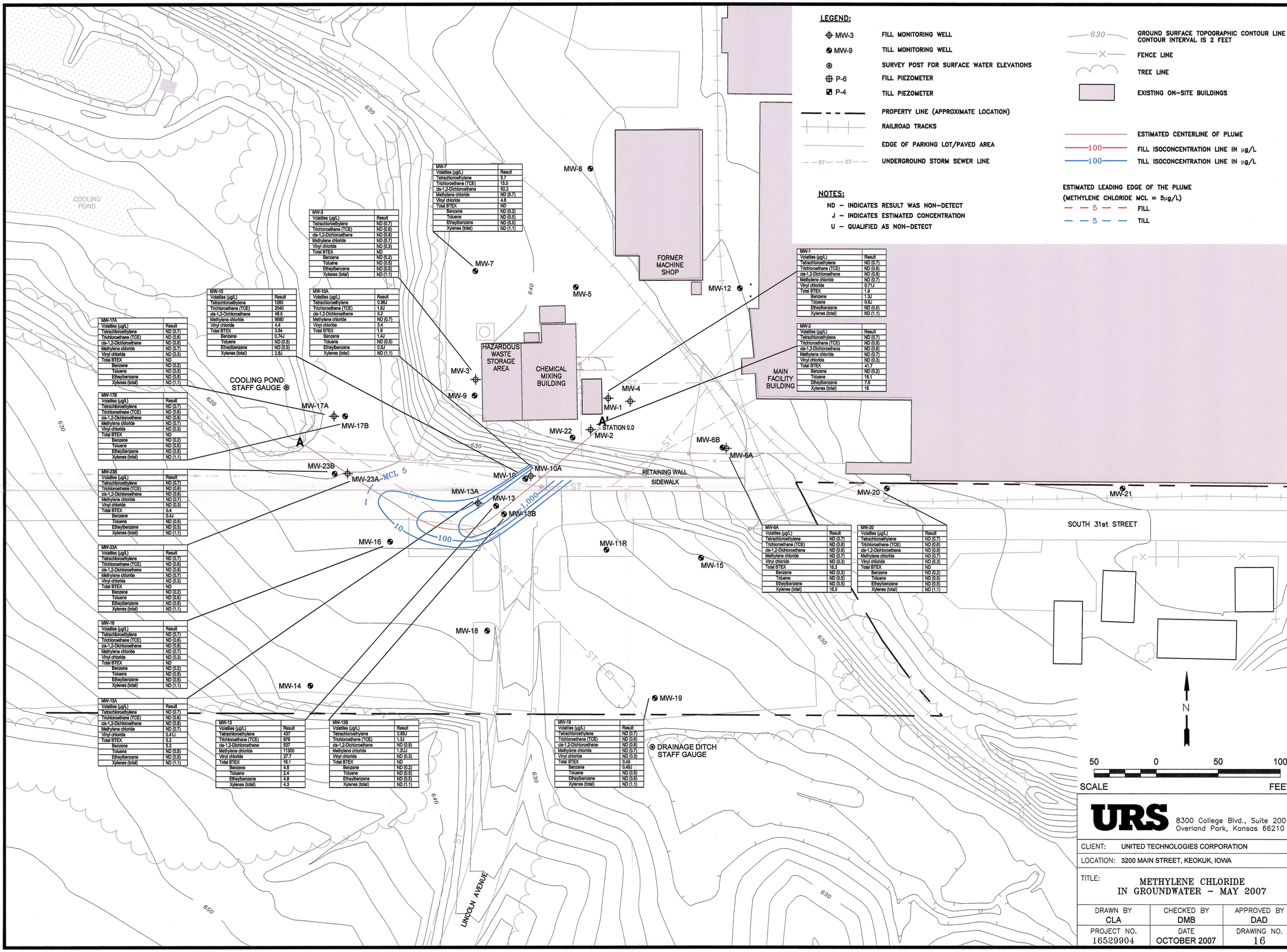


URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	METHYLENE CHLORIDE IN GROUNDWATER – MAY 2007

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DMB	DAD
PROJECT NO. 16529904	DATE OCTOBER 2007	DRAWING NO. 16

October 31, 2007 9:06:29 am (jam)
J:\3200 Main Street\1652990A\October 2007\13 through19.dwg

LEGEND:

- MW-3 — FILL MONITORING WELL
- MW-9 — TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- P-6 — FILL PIEZOMETER
- P-4 — TILL PIEZOMETER
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- ESTIMATED CENTERLINE OF PLUME
- 100 — FILL ISOCONCENTRATION LINE IN µg/L
- 100 — TILL ISOCONCENTRATION LINE IN µg/L

NOTES:

ND – INDICATES RESULT WAS NON-DETECT
J – INDICATES ESTIMATED CONCENTRATION
U – QUALIFIED AS NON-DETECT

ESTIMATED LEADING EDGE OF THE PLUME
(VINYL CHLORIDE MCL = 2µg/L)
- 2 — FILL
- 2 — TILL

MW-7	
Volatiles (µg/L)	Result
Tetrachloroethylene	5.7
Trichloroethene (TCE)	15.5
cis-1,2-Dichloroethene	62.2
Methylene chloride	ND (0.7)
Vinyl chloride	4.6
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-3	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-10	
Volatiles (µg/L)	Result
Tetrachloroethylene	1260
Trichloroethene (TCE)	2040
cis-1,2-Dichloroethene	46.5
Methylene chloride	8680
Vinyl chloride	4.4
Total BTEX	3.54
Benzene	0.74J
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	2.8J

MW-10A	
Volatiles (µg/L)	Result
Tetrachloroethylene	0.96J
Trichloroethene (TCE)	1.6J
cis-1,2-Dichloroethene	5.2
Methylene chloride	ND (0.7)
Vinyl chloride	3.4
Total BTEX	1.9
Benzene	1.4J
Toluene	ND (0.5)
Etheylbenzene	0.5J
Xylenes (total)	ND (1.1)

MW-17A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-17B	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23B	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	0.4
Benzene	0.4J
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-16	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	0.41J
Total BTEX	5.2
Benzene	5.2
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13	
Volatiles (µg/L)	Result
Tetrachloroethylene	437
Trichloroethene (TCE)	876
cis-1,2-Dichloroethene	537
Methylene chloride	11300
Vinyl chloride	27.7
Total BTEX	16.1
Benzene	4.8
Toluene	2.4
Etheylbenzene	4.8
Xylenes (total)	4.3

MW-13B	
Volatiles (µg/L)	Result
Tetrachloroethylene	0.85J
Trichloroethene (TCE)	1.3J
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	1.2UJ
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-19	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	0.49
Benzene	0.49J
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-1	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	0.71J
Total BTEX	1.9
Benzene	1.3J
Toluene	0.6J
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-2	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	41.7
Benzene	ND (0.2)
Toluene	16.1
Etheylbenzene	7.5
Xylenes (total)	18

MW-6A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	16.3
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	16.3

MW-20	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

COOLING POND
COOLING POND STAFF GAUGE
FORMER MACHINE SHOP
HAZARDOUS WASTE STORAGE AREA
CHEMICAL MIXING BUILDING
MAIN FACILITY BUILDING
RETAINING WALL
SIDEWALK
DRAINAGE DITCH STAFF GAUGE
LINCOLN AVENUE
SOUTH 31st STREET
STATION 0.0
MCL 2
MW-1 MW-2 MW-3 MW-4 MW-5 MW-6A MW-6B MW-7 MW-8 MW-9 MW-10 MW-10A MW-11R MW-12 MW-13 MW-13A MW-13B MW-14 MW-15 MW-16 MW-17A MW-17B MW-18 MW-19 MW-20 MW-21 MW-22 MW-23A MW-23B

N

50 0 50 100
SCALE FEET

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION
LOCATION: 3200 MAIN STREET, KEOKUK, IOWA
TITLE: VINYL CHLORIDE IN GROUNDWATER – MAY 2007

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DMB	DAD
PROJECT NO. 16529904	DATE OCTOBER 2007	DRAWING NO. 17

October 31, 2007 9:07:41 am (jam)
J:\3200 Main Street\16529904\October 2007\13 through19.dwg

LEGEND:

- MW-3 — FILL MONITORING WELL
- MW-9 — TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- P-6 — FILL PIEZOMETER
- P-4 — TILL PIEZOMETER
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST — UNDERGROUND STORM SEWER LINE
- 630 — GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- ESTIMATED CENTERLINE OF PLUME
- 100 — FILL ISOCONCENTRATION LINE IN µg/L
- 100 — TILL ISOCONCENTRATION LINE IN µg/L

NOTES:

ND – INDICATES RESULT WAS NON-DETECT
J – INDICATES ESTIMATED CONCENTRATION
U – QUALIFIED AS NON-DETECT

MW-7	
Volatiles (µg/L)	Result
Tetrachloroethylene	5.7
Trichloroethene (TCE)	15.5
cis-1,2-Dichloroethene	62.2
Methylene chloride	ND (0.7)
Vinyl chloride	4.6
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-3	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-10	
Volatiles (µg/L)	Result
Tetrachloroethylene	1260
Trichloroethene (TCE)	2040
cis-1,2-Dichloroethene	46.5
Methylene chloride	8680
Vinyl chloride	4.4
Total BTEX	3.54
Benzene	0.74J
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	2.8J

MW-10A	
Volatiles (µg/L)	Result
Tetrachloroethylene	0.96J
Trichloroethene (TCE)	1.6J
cis-1,2-Dichloroethene	5.2
Methylene chloride	ND (0.7)
Vinyl chloride	3.4
Total BTEX	1.9
Benzene	1.4J
Toluene	ND (0.5)
Ethelybenzene	0.5J
Xylenes (total)	ND (1.1)

MW-17A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-17B	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23B	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	0.4
Benzene	0.4J
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-16	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	0.41J
Total BTEX	5.2
Benzene	5.2
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13	
Volatiles (µg/L)	Result
Tetrachloroethylene	437
Trichloroethene (TCE)	876
cis-1,2-Dichloroethene	537
Methylene chloride	11300
Vinyl chloride	27.7
Total BTEX	16.1
Benzene	4.8
Toluene	2.4
Ethelybenzene	4.8
Xylenes (total)	4.3

MW-13B	
Volatiles (µg/L)	Result
Tetrachloroethylene	0.85J
Trichloroethene (TCE)	1.3J
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	1.2DJ
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-19	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	0.49
Benzene	0.49J
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-1	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	0.71J
Total BTEX	1.9
Benzene	1.3J
Toluene	0.6J
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-2	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	41.7
Benzene	ND (0.2)
Toluene	16.1
Ethelybenzene	7.8
Xylenes (total)	18

MW-8A	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	16.3
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	16.3

MW-20	
Volatiles (µg/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Ethelybenzene	ND (0.5)
Xylenes (total)	ND (1.1)

COOLING POND
COOLING POND STAFF GAUGE
FORMER MACHINE SHOP
HAZARDOUS WASTE STORAGE AREA
CHEMICAL MIXING BUILDING
MAIN FACILITY BUILDING
RETAINING WALL
SIDEWALK
SOUTH 31st STREET
LINCOLN AVENUE
DRAINAGE DITCH STAFF GAUGE
STATION 0.0
MW-1 MW-2 MW-3 MW-4 MW-5 MW-6A MW-6B MW-7 MW-8 MW-9 MW-10 MW-10A MW-11R MW-12 MW-13 MW-13A MW-13B MW-14 MW-15 MW-16 MW-17A MW-17B MW-18 MW-19 MW-20 MW-21 MW-22 MW-23A MW-23B

N

50 0 50 100
SCALE FEET

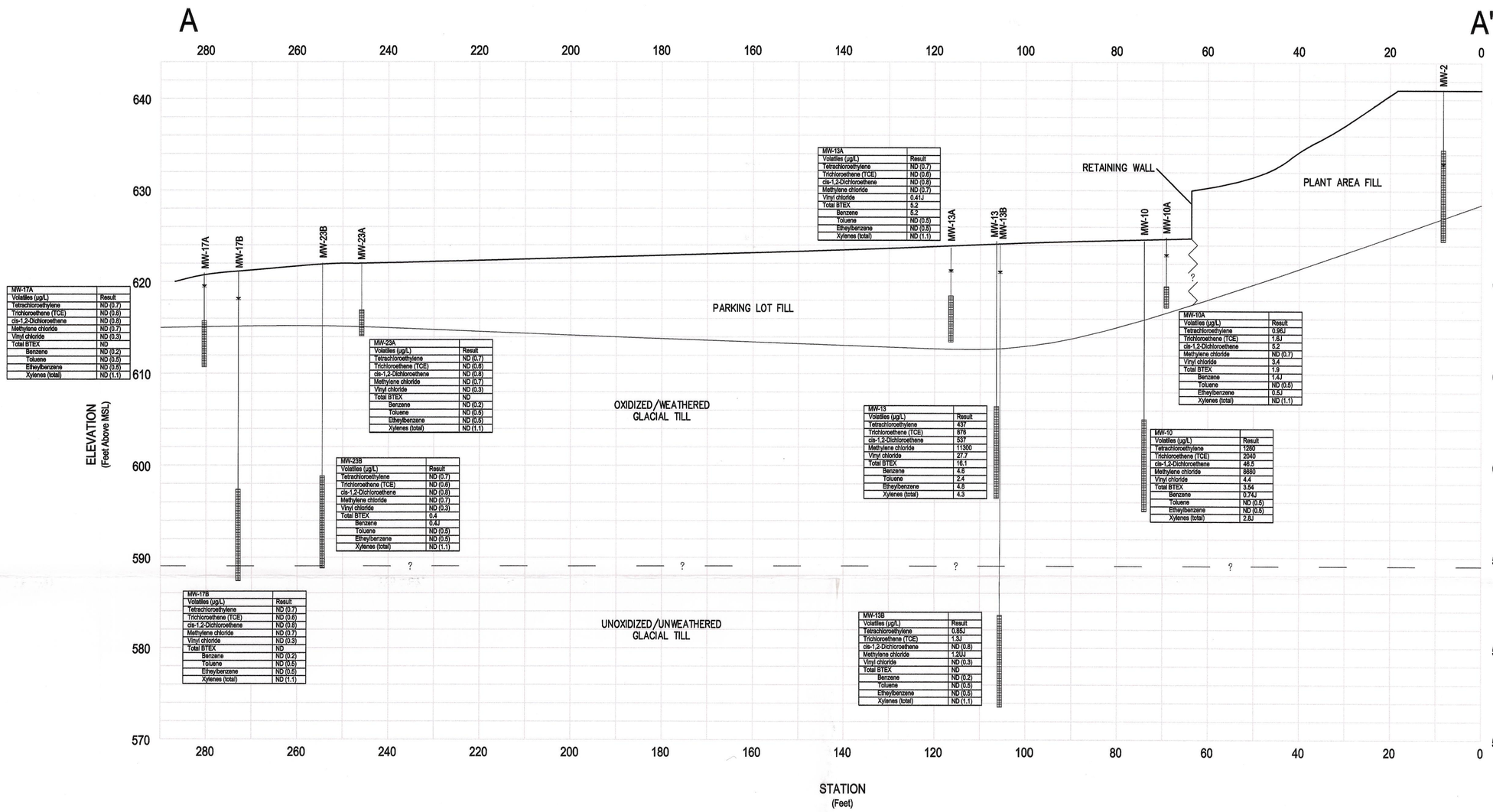
URS 8300 College Blvd., Suite 200 Overland Park, Kansas 66210

CLIENT: UNITED TECHNOLOGIES CORPORATION
LOCATION: 3200 MAIN STREET, KEOKUK, IOWA
TITLE: TOTAL BTEX IN GROUNDWATER – MAY 2007

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DMB	DAD
PROJECT NO. 16529904	DATE OCTOBER 2007	DRAWING NO. 18

October 31, 2007 9:09:10 am (jam)
J:\3200 Main Street\16529904\October 2007\13 through19.dwg

CROSS-SECTION A-A'



MW-17A	
Volatiles (ug/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-17B	
Volatiles (ug/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23A	
Volatiles (ug/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-23B	
Volatiles (ug/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	0.4
Benzene	0.4J
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13A	
Volatiles (ug/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	0.41J
Total BTEX	5.2
Benzene	5.2
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-13	
Volatiles (ug/L)	Result
Tetrachloroethylene	437
Trichloroethene (TCE)	876
cis-1,2-Dichloroethene	537
Methylene chloride	11300
Vinyl chloride	27.7
Total BTEX	16.1
Benzene	4.5
Toluene	2.4
Etheylbenzene	4.8
Xylenes (total)	4.3

MW-13B	
Volatiles (ug/L)	Result
Tetrachloroethylene	0.85J
Trichloroethene (TCE)	1.3J
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	1.2UJ
Vinyl chloride	ND (0.3)
Total BTEX	ND
Benzene	ND (0.2)
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	ND (1.1)

MW-10	
Volatiles (ug/L)	Result
Tetrachloroethylene	1280
Trichloroethene (TCE)	2040
cis-1,2-Dichloroethene	46.5
Methylene chloride	6680
Vinyl chloride	4.4
Total BTEX	3.54
Benzene	0.74J
Toluene	ND (0.5)
Etheylbenzene	ND (0.5)
Xylenes (total)	2.8J

MW-10A	
Volatiles (ug/L)	Result
Tetrachloroethylene	0.98J
Trichloroethene (TCE)	1.6J
cis-1,2-Dichloroethene	5.2
Methylene chloride	ND (0.7)
Vinyl chloride	3.4
Total BTEX	1.9
Benzene	1.4J
Toluene	ND (0.5)
Etheylbenzene	0.5J
Xylenes (total)	ND (1.1)

MW-2	
Volatiles (ug/L)	Result
Tetrachloroethylene	ND (0.7)
Trichloroethene (TCE)	ND (0.6)
cis-1,2-Dichloroethene	ND (0.8)
Methylene chloride	ND (0.7)
Vinyl chloride	ND (0.3)
Total BTEX	41.7
Benzene	ND (0.2)
Toluene	16.1
Etheylbenzene	7.6
Xylenes (total)	18

LEGEND:

STATIC GROUNDWATER LEVEL, APRIL 18, 2007

MONITORING WELL SCREEN

NOTES:

GROUNDWATER VOC RESULTS FROM MAY 2007 SAMPLING EVENT

ND – INDICATES RESULT WAS NON-DETECT

J – INDICATES ESTIMATED CONCENTRATION

U – QUALIFIED AS NON-DETECT

SCALE: 20 0 20 40 FEET

SCALE: 20 10 0 10 FEET

URS
8300 College Blvd., Suite 200
Overland Park, Kansas 66210

CLIENT:	UNITED TECHNOLOGIES CORPORATION
LOCATION:	3200 MAIN STREET, KEOKUK, IOWA
TITLE:	CROSS SECTION A-A', PLUME CENTERLINE WELLS

DRAWN BY	CHECKED BY	APPROVED BY
CLA	DMB	DAD
PROJECT NO.	DATE	DRAWING NO.
16529904	OCTOBER 2007	19

October 31, 2007 9:10:27 am (jam)
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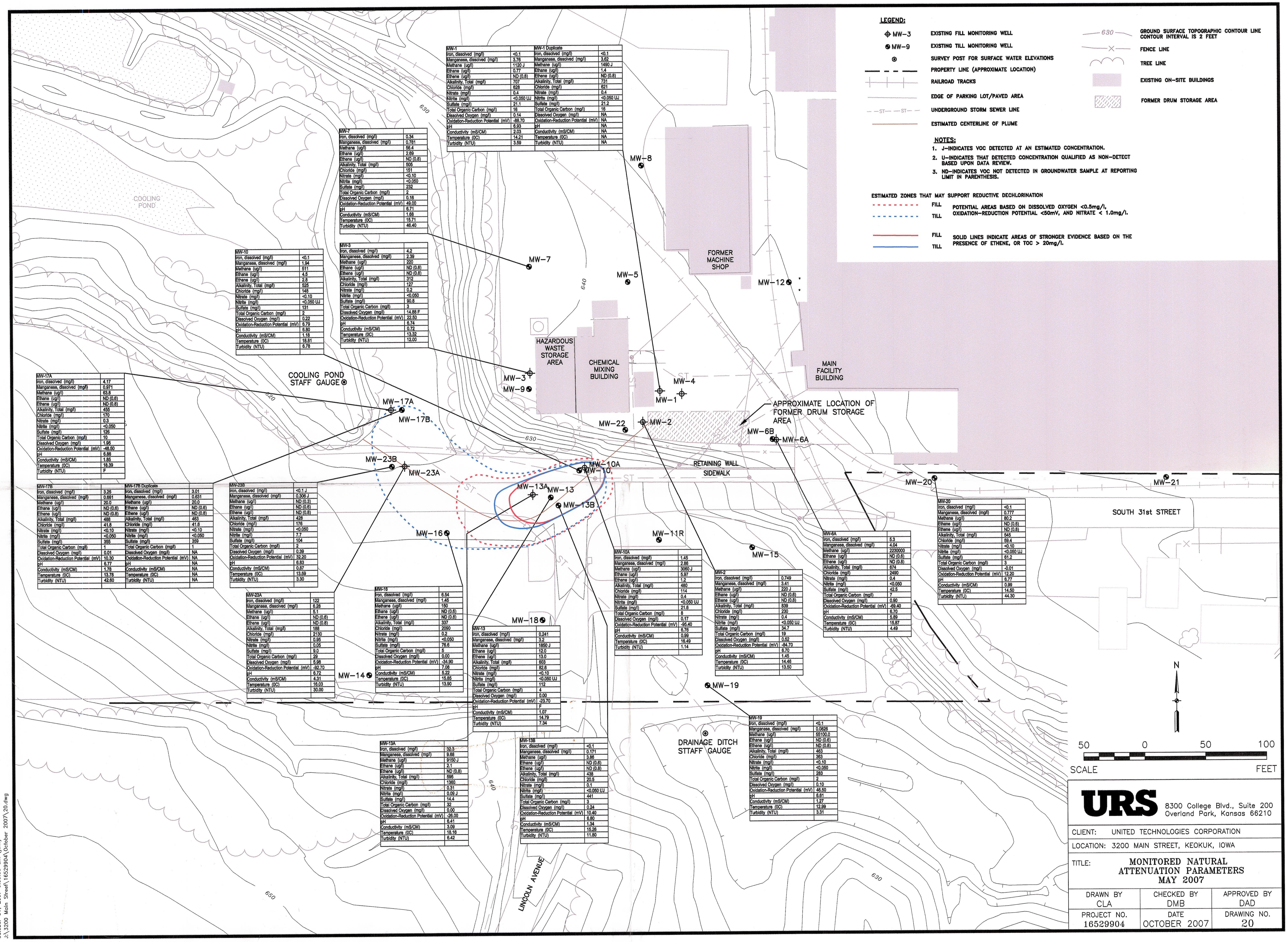

LEGEND:

- MW-3 EXISTING FILL MONITORING WELL
- MW-9 EXISTING TILL MONITORING WELL
- SURVEY POST FOR SURFACE WATER ELEVATIONS
- PROPERTY LINE (APPROXIMATE LOCATION)
- RAILROAD TRACKS
- EDGE OF PARKING LOT/PAVED AREA
- ST — ST UNDERGROUND STORM SEWER LINE
- ESTIMATED CENTERLINE OF PLUME
- 630 GROUND SURFACE TOPOGRAPHIC CONTOUR LINE CONTOUR INTERVAL IS 2 FEET
- FENCE LINE
- TREE LINE
- EXISTING ON-SITE BUILDINGS
- FORMER DRUM STORAGE AREA

NOTES:

1. J-INDICATES VOC DETECTED AT AN ESTIMATED CONCENTRATION.
2. U-INDICATES THAT DETECTED CONCENTRATION QUALIFIED AS NON-DETECT BASED UPON DATA REVIEW.
3. ND-INDICATES VOC NOT DETECTED IN GROUNDWATER SAMPLE AT REPORTING LIMIT IN PARENTHESIS.

ESTIMATED ZONES THAT MAY SUPPORT REDUCTIVE DECHLORINATION

FILL / TILL — POTENTIAL AREAS BASED ON DISSOLVED OXYGEN <0.5mg/l, OXIDATION-REDUCTION POTENTIAL <50mV, AND NITRATE < 1.0mg/l.

FILL / TILL — SOLID LINES INDICATE AREAS OF STRONGER EVIDENCE BASED ON THE PRESENCE OF ETHENE, OR TOC > 20mg/l.

MW-1		MW-1 Duplicate	
Iron, dissolved (mg/l)	<0.1	Iron, dissolved (mg/l)	<0.1
Manganese, dissolved (mg/l)	3.76	Manganese, dissolved (mg/l)	3.62
Methane (ug/l)	1120 J	Methane (ug/l)	1490 J
Ethane (ug/l)	0.77	Ethane (ug/l)	1.4
Ethene (ug/l)	ND (0.8)	Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	707	Alkalinity, Total (mg/l)	731
Chloride (mg/l)	628	Chloride (mg/l)	621
Nitrate (mg/l)	0.4	Nitrate (mg/l)	0.4
Nitrite (mg/l)	<0.050 UJ	Nitrite (mg/l)	<0.050 UJ
Sulfate (mg/l)	21.1	Sulfate (mg/l)	21.2
Total Organic Carbon (mg/l)	16	Total Organic Carbon (mg/l)	16
Dissolved Oxygen (mg/l)	0.14	Dissolved Oxygen (mg/l)	NA
Oxidation-Reduction Potential (mV)	-88.70	Oxidation-Reduction Potential (mV)	NA
pH	6.93	pH	NA
Conductivity (mS/CM)	2.03	Conductivity (mS/CM)	NA
Temperature (0C)	14.21	Temperature (0C)	NA
Turbidity (NTU)	3.59	Turbidity (NTU)	NA

MW-7	
Iron, dissolved (mg/l)	0.34
Manganese, dissolved (mg/l)	0.781
Methane (ug/l)	56.4
Ethane (ug/l)	2.69
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	505
Chloride (mg/l)	151
Nitrate (mg/l)	<0.10
Nitrite (mg/l)	<0.050
Sulfate (mg/l)	232
Total Organic Carbon (mg/l)	2
Dissolved Oxygen (mg/l)	0.16
Oxidation-Reduction Potential (mV)	49.00
pH	6.71
Conductivity (mS/CM)	1.68
Temperature (0C)	15.71
Turbidity (NTU)	46.40

MW-3	
Iron, dissolved (mg/l)	4.2
Manganese, dissolved (mg/l)	2.39
Methane (ug/l)	220
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	312
Chloride (mg/l)	127
Nitrate (mg/l)	0.2
Nitrite (mg/l)	<0.050
Sulfate (mg/l)	90.8
Total Organic Carbon (mg/l)	3
Dissolved Oxygen (mg/l)	14.88 F
Oxidation-Reduction Potential (mV)	22.50
pH	6.74
Conductivity (mS/CM)	0.72
Temperature (0C)	13.32
Turbidity (NTU)	12.00

MW-10	
Iron, dissolved (mg/l)	<0.1
Manganese, dissolved (mg/l)	1.94
Methane (ug/l)	511
Ethane (ug/l)	4.5
Ethene (ug/l)	2.8
Alkalinity, Total (mg/l)	525
Chloride (mg/l)	148
Nitrate (mg/l)	<0.10
Nitrite (mg/l)	<0.050 UJ
Sulfate (mg/l)	131
Total Organic Carbon (mg/l)	2
Dissolved Oxygen (mg/l)	0.22
Oxidation-Reduction Potential (mV)	6.79
pH	6.80
Conductivity (mS/CM)	1.18
Temperature (0C)	18.81
Turbidity (NTU)	6.78

MW-17A	
Iron, dissolved (mg/l)	4.17
Manganese, dissolved (mg/l)	0.971
Methane (ug/l)	63.8
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	455
Chloride (mg/l)	170
Nitrate (mg/l)	0.3
Nitrite (mg/l)	<0.050
Sulfate (mg/l)	126
Total Organic Carbon (mg/l)	10
Dissolved Oxygen (mg/l)	1.95
Oxidation-Reduction Potential (mV)	-48.50
pH	6.86
Conductivity (mS/CM)	1.85
Temperature (0C)	18.39
Turbidity (NTU)	F

MW-17B		MW-17B Duplicate	
Iron, dissolved (mg/l)	3.25	Iron, dissolved (mg/l)	3.01
Manganese, dissolved (mg/l)	0.661	Manganese, dissolved (mg/l)	0.631
Methane (ug/l)	20.0	Methane (ug/l)	20.0
Ethane (ug/l)	ND (0.6)	Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)	Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	488	Alkalinity, Total (mg/l)	463
Chloride (mg/l)	41.8	Chloride (mg/l)	41.6
Nitrate (mg/l)	<0.10	Nitrate (mg/l)	<0.10
Nitrite (mg/l)	<0.050	Nitrite (mg/l)	<0.050
Sulfate (mg/l)	355	Sulfate (mg/l)	359
Total Organic Carbon (mg/l)	1	Total Organic Carbon (mg/l)	1
Dissolved Oxygen (mg/l)	0.01	Dissolved Oxygen (mg/l)	NA
Oxidation-Reduction Potential (mV)	10.30	Oxidation-Reduction Potential (mV)	NA
pH	6.77	pH	NA
Conductivity (mS/CM)	1.78	Conductivity (mS/CM)	NA
Temperature (0C)	13.78	Temperature (0C)	NA
Turbidity (NTU)	42.60	Turbidity (NTU)	NA

MW-23B	
Iron, dissolved (mg/l)	<0.1 J
Manganese, dissolved (mg/l)	0.306 J
Methane (ug/l)	ND (0.3)
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	428
Chloride (mg/l)	176
Nitrate (mg/l)	<0.050
Nitrite (mg/l)	7.7
Sulfate (mg/l)	104
Total Organic Carbon (mg/l)	2
Dissolved Oxygen (mg/l)	0.39
Oxidation-Reduction Potential (mV)	32.20
pH	6.83
Conductivity (mS/CM)	0.87
Temperature (0C)	13.59
Turbidity (NTU)	3.30

MW-23A	
Iron, dissolved (mg/l)	122
Manganese, dissolved (mg/l)	6.28
Methane (ug/l)	5.1
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	188
Chloride (mg/l)	2130
Nitrate (mg/l)	0.95
Nitrite (mg/l)	0.05
Sulfate (mg/l)	9.0
Total Organic Carbon (mg/l)	29
Dissolved Oxygen (mg/l)	5.98
Oxidation-Reduction Potential (mV)	-92.70
pH	6.72
Conductivity (mS/CM)	4.31
Temperature (0C)	16.03
Turbidity (NTU)	30.00

MW-16	
Iron, dissolved (mg/l)	6.54
Manganese, dissolved (mg/l)	1.45
Methane (ug/l)	150
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	337
Chloride (mg/l)	2090
Nitrate (mg/l)	0.2
Nitrite (mg/l)	<0.050
Sulfate (mg/l)	76.6
Total Organic Carbon (mg/l)	5
Dissolved Oxygen (mg/l)	0.00
Oxidation-Reduction Potential (mV)	-34.90
pH	7.08
Conductivity (mS/CM)	5.22
Temperature (0C)	15.85
Turbidity (NTU)	13.90

MW-13	
Iron, dissolved (mg/l)	0.241
Manganese, dissolved (mg/l)	3.2
Methane (ug/l)	1850 J
Ethane (ug/l)	12.0
Ethene (ug/l)	13.0
Alkalinity, Total (mg/l)	603
Chloride (mg/l)	82.6
Nitrate (mg/l)	<0.10
Nitrite (mg/l)	<0.050 UJ
Sulfate (mg/l)	112
Total Organic Carbon (mg/l)	4
Dissolved Oxygen (mg/l)	0.00
Oxidation-Reduction Potential (mV)	-23.70
pH	F
Conductivity (mS/CM)	1.07
Temperature (0C)	14.79
Turbidity (NTU)	7.34

MW-13A	
Iron, dissolved (mg/l)	32.3
Manganese, dissolved (mg/l)	9.68
Methane (ug/l)	9150 J
Ethane (ug/l)	2.1
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	595
Chloride (mg/l)	1360
Nitrate (mg/l)	0.31
Nitrite (mg/l)	0.09 J
Sulfate (mg/l)	14.4
Total Organic Carbon (mg/l)	32
Dissolved Oxygen (mg/l)	0.00
Oxidation-Reduction Potential (mV)	-26.00
pH	6.41
Conductivity (mS/CM)	3.09
Temperature (0C)	18.16
Turbidity (NTU)	6.42

MW-13B	
Iron, dissolved (mg/l)	<0.1
Manganese, dissolved (mg/l)	0.171
Methane (ug/l)	3.86
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	438
Chloride (mg/l)	20.5
Nitrate (mg/l)	0.1
Nitrite (mg/l)	<0.050 UJ
Sulfate (mg/l)	441
Total Organic Carbon (mg/l)	3
Dissolved Oxygen (mg/l)	0.24
Oxidation-Reduction Potential (mV)	10.40
pH	6.80
Conductivity (mS/CM)	1.34
Temperature (0C)	15.26
Turbidity (NTU)	11.80

MW-10A	
Iron, dissolved (mg/l)	1.45
Manganese, dissolved (mg/l)	2.86
Methane (ug/l)	3060 J
Ethane (ug/l)	5.97
Ethene (ug/l)	1.2
Alkalinity, Total (mg/l)	480
Chloride (mg/l)	114
Nitrate (mg/l)	0.4
Nitrite (mg/l)	<0.050 UJ
Sulfate (mg/l)	21.6
Total Organic Carbon (mg/l)	8
Dissolved Oxygen (mg/l)	0.17
Oxidation-Reduction Potential (mV)	-95.40
pH	6.76
Conductivity (mS/CM)	0.99
Temperature (0C)	16.49
Turbidity (NTU)	1.14

MW-2	
Iron, dissolved (mg/l)	0.749
Manganese, dissolved (mg/l)	3.41
Methane (ug/l)	220 J
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	839
Chloride (mg/l)	230
Nitrate (mg/l)	0.4
Nitrite (mg/l)	<0.050 UJ
Sulfate (mg/l)	34.7
Total Organic Carbon (mg/l)	19
Dissolved Oxygen (mg/l)	0.52
Oxidation-Reduction Potential (mV)	-84.70
pH	6.70
Conductivity (mS/CM)	1.45
Temperature (0C)	14.46
Turbidity (NTU)	13.50

MW-6A	
Iron, dissolved (mg/l)	5.3
Manganese, dissolved (mg/l)	4.04
Methane (ug/l)	2230000
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	674
Chloride (mg/l)	2490
Nitrate (mg/l)	0.4
Nitrite (mg/l)	<0.050
Sulfate (mg/l)	42.5
Total Organic Carbon (mg/l)	7
Dissolved Oxygen (mg/l)	0.90
Oxidation-Reduction Potential (mV)	-69.40
pH	6.70
Conductivity (mS/CM)	5.89
Temperature (0C)	15.87
Turbidity (NTU)	4.49

MW-20	
Iron, dissolved (mg/l)	<0.1
Manganese, dissolved (mg/l)	0.777
Methane (ug/l)	80.2
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	545
Chloride (mg/l)	59.4
Nitrate (mg/l)	<0.10
Nitrite (mg/l)	<0.050 UJ
Sulfate (mg/l)	61.2
Total Organic Carbon (mg/l)	3
Dissolved Oxygen (mg/l)	-0.01
Oxidation-Reduction Potential (mV)	12.20
pH	6.77
Conductivity (mS/CM)	0.99
Temperature (0C)	14.50
Turbidity (NTU)	44.30

MW-19	
Iron, dissolved (mg/l)	<0.1
Manganese, dissolved (mg/l)	0.0826
Methane (ug/l)	55100.0
Ethane (ug/l)	ND (0.6)
Ethene (ug/l)	ND (0.8)
Alkalinity, Total (mg/l)	463
Chloride (mg/l)	363
Nitrate (mg/l)	<0.10
Nitrite (mg/l)	<0.050
Sulfate (mg/l)	283
Total Organic Carbon (mg/l)	2
Dissolved Oxygen (mg/l)	0.10
Oxidation-Reduction Potential (mV)	46.50
pH	6.61
Conductivity (mS/CM)	1.27
Temperature (0C)	12.99
Turbidity (NTU)	3.31

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CLIENT: UNITED TECHNOLOGIES CORPORATION

LOCATION: 3200 MAIN STREET, KEOKUK, IOWA

TITLE: MONITORED NATURAL ATTENUATION PARAMETERS MAY 2007

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