GRCRS Package Cover Sheet

Site Name Ben + Jannettes Shantytown Bar

Site Address 2176 So. CtH Y + J, Rosholt WI 54473

BRRTS # 03-37-000983 **Date of Closure Decision** 2/9/00

✓ Closure letter(s)

✓ Groundwater Use Restriction/Warranty Deed

Yes/(No) Off-site contamination present? (Include related documents)

Yes/(No) Right-of-way contamination present? (Include related documents)

✓ General location map

565498 GPS x-coordinate

469280 GPS y-coordinate

✓ Detailed site map(s)

✓ Groundwater flow map(s)

____ Latest map(s) showing extent or outline of plume

✓ Latest table(s) of analytical results (soil results included only if soil deed restriction is incorporated into groundwater use restriction document)

If available:

____ Legal description

008.4.2609.332.0994 County and Parcel I.D./Tax Parcel No.

✓ Geologic cross sections

____ Isoconcentrations map(s)

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Scott A. Humrickhouse, Regional Director

Wausau Office
5301 Rib Mountain Drive
Wausau, Wisconsin 54401
Telephone 715-359-4522
FAX 715-355-5253

May 15, 2000

BRRTS #03-37-000983

MR BEN BEMBENEK
2176 CTH Y & J
ROSHOLT WI 54473

FILE COPY

Subject: Case Closure, Shantytown Bar, (Town of Bevent), Rosholt, Wisconsin

Dear Mr. Bembenek:

On February 9, 2000, the Shantytown Bar case was reviewed by the West Central Regional Close Out Committee for a determination as to whether or not the case qualified for close out under ch. NR 726, Wis. Adm. Code. At that time the Committee requested that the three-downgradient potable wells be sampled.

Based on the information provided and the results of the potable well sampling, the contamination on the site appears to have been remediated to the extent practicable under site conditions. Your case will be granted closure under s.NR726.05, Wisconsin Administrative Code when the following conditions have been met.

MONITORING WELL ABANDONMENT The monitoring wells at the site must be properly abandoned in compliance with s.NR141.25 Wis. Adm. Code. Documentation substantiating proper abandonment (Form 3300-5W) should be forwarded to me at the above address.

GROUNDWATER USE RESTRICTION A groundwater use restriction which meets the requirements of s.NR 726.05(8)(am), Wis. Adm. Code, must be provided to the Department for approval along with a **copy of the deed** for the affected property. Upon approval from the Department, the restrictions must be registered with the County Registrar of Deeds within 30 days. Once the Department has received documentation that the restriction has been recorded and all other conditions for closure have been met, the case will be considered closed. A copy of the groundwater use restriction is attached.

NOTICE OF REMAINING SOIL CONTAMINATION Residual soil contamination remains beneath the building. If the building is razed in the future, the contaminated soil should be excavated and disposed of properly.

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Scott A. Humrickhouse, Regional Director

Wausau Office
5301 Rib Mountain Drive
Wausau, Wisconsin 54401
Telephone 715-359-4522
FAX 715-355-5253

December 7, 2000

BRRTS #03-37-000983

MR BEN BEMBENEK
2176 CTH Y & J
ROSHOLT WI 54473

Subject: Case Closure, Shantytown Bar (Town of Bevent), Rosholt, Wisconsin

Dear Mr. Bembenek:

Based on your consultant's recent submittal of the recorded deed restriction and their July 14, 2000 submittal, you have met the conditions for closure. On May 15, 2000 we sent you a conditional closure letter for the your site. As conditions of closure you needed to abandon the monitoring wells at the site and record a groundwater use restriction and deed restriction for residual soil contamination.

Since you have met the conditions of closure, we consider your case closed with no further action at this time. We appreciate the efforts you have taken to address the contamination at this site. If you have any questions regarding this letter, please contact me at 715/359-6514.

Sincerely,

Lisa Gutknecht

Lisa Gutknecht - Project Manager
Remediation & Redevelopment Program

c: Bill Evans, Eau Claire
David Carriveau, Wausau
Matthew Rahn, REI

Document Number

Deed Notice and Groundwater Use Restriction

Michael J. Sydow

In re:

Part of the W 1/2 of the NW 1/4 of Section 33, Township 26 North, Range 9 East, Town of Bevent, Marathon County, Wisconsin, Described as follows: Commencing at the NE corner of lands as described in Volume 508, page 548 of Marathon County Registry Records for the point of beginning run.
Thence S 56° 35' E, on an extension of the north line of those lands as described in Volume 508, page 548, 72.00 feet; thence S 10° 59' W 388.00 feet; thence S 45° 39' 30" W 117.37 feet to a point on the East line on the aforementioned lands; thence N 10° 59' E 512.00 feet to the point of beginning

Recording Area

Name and Return Address

KEI
4080 N. 20th Ave
Wausau, WI 54401

CR
14.00

STATE OF WISCONSIN)
) ss
COUNTY OF *Marathon*)

008.4.2609.332.0994
Parcel Identification Number (PIN)

Whereas, Benedict J. Bembenek and Jeanette T. Bembenek husband and wife, are the owners of the above described property.

Whereas, one or more petroleum discharges have occurred on this property. Petroleum contaminated groundwater above ch. NR 140, Wis. Adm. Code, enforcement standards existed on this property at the following location(s): Benzene at 1900 micrograms per liter (µg/L), west of the existing building in and around Monitoring Well-2 (MW-2). Residual petroleum contaminated soil also existed on the property around and under the west end of the existing building. The locations of MW-2 and the existing building are depicted on Figure 1, which is attached and hereby made a part of this restriction.

Whereas, NOTICE IS GIVEN that if the above-described contaminated soil is excavated in the future, it will have to be sampled and disposed of in accordance with applicable statutes and rules, and may be considered a solid or hazardous waste.

Whereas, it is the desire and intention of the property owners to impose on the property restrictions which will make it unnecessary to conduct further groundwater and/or soil remediation activities on the property at the present time.

Whereas, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140, Wis. Adm. Code groundwater standards within the boundaries of this property.

Whereas, construction of wells where the water quality does not comply with drinking water standards in ch. NR 809, Wis. Adm. Code is restricted by chs. NR 811 and NR 812, Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

Therefore, the owners hereby declare that all of the property, described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following restrictions:

> Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its' successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, of if groundwater is to be otherwise extracted from this property, while this groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for contaminants that were previously detected on the property and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above described property whether by descent, devise, purchase or otherwise. This restriction benefits and are enforceable by the Wisconsin Department of Natural Resources, its successors or assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant in no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded to give notice that these deed restrictions, or portions of these deed restrictions, are no longer binding.

IN WITNESS WHEREOF, the owners of the property have executed this document, this___day of 20___

Signature: [signature]
Printed Name: Bert Bembenek

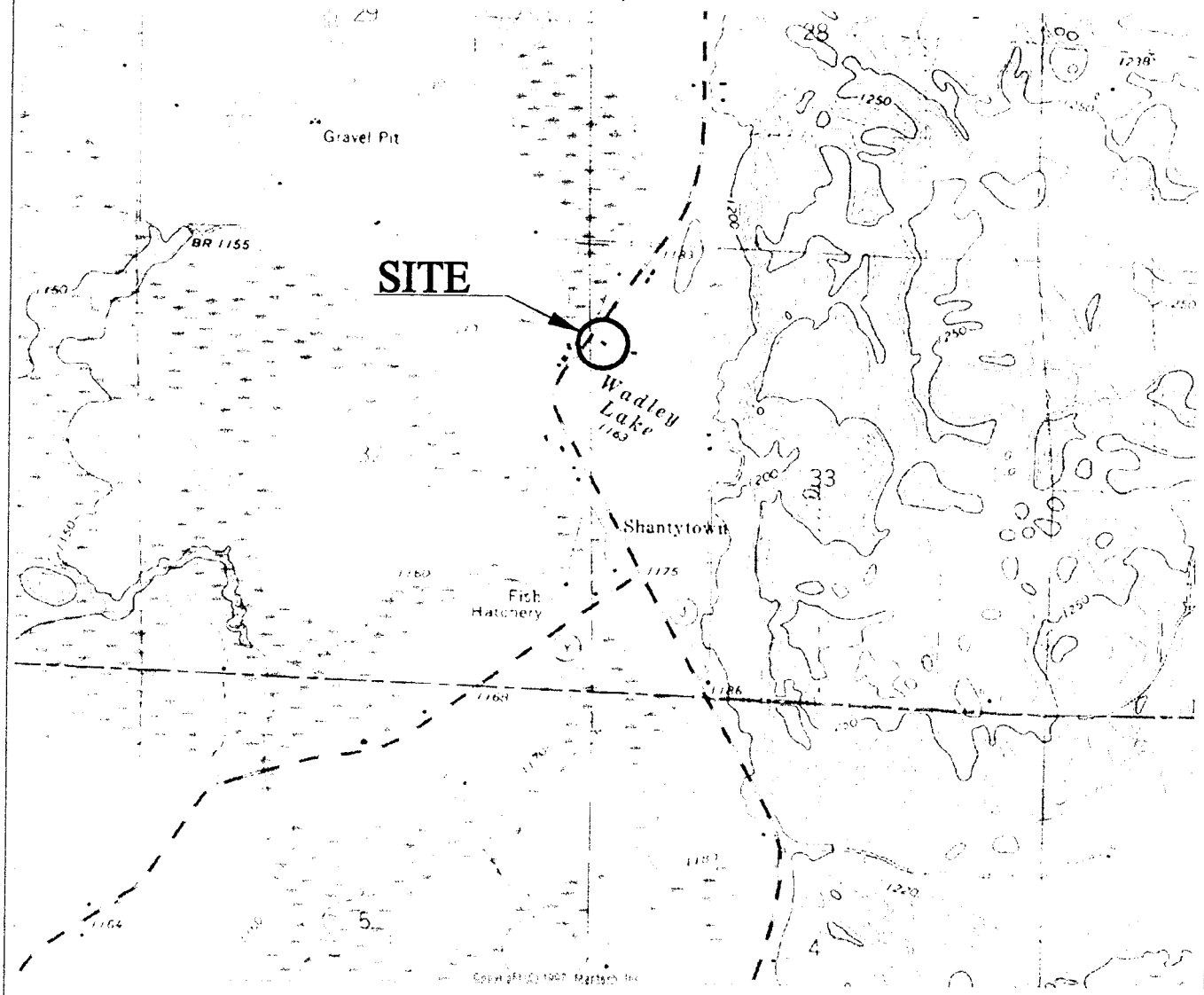
Signature: [signature]
Printed Name: JEANETTE BEMBENEK

Subscribed and sworn to before me
this 11th day of Oct, 20 00

[signature]
Notary Public, state of Wisconsin
My commission 12-09-2001

This document was drafted by REI based on comments from the Wisconsin Department of Natural Resources.

REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING



SCALE 1:24000

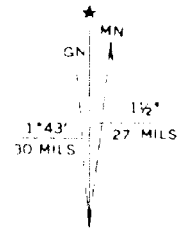
1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION



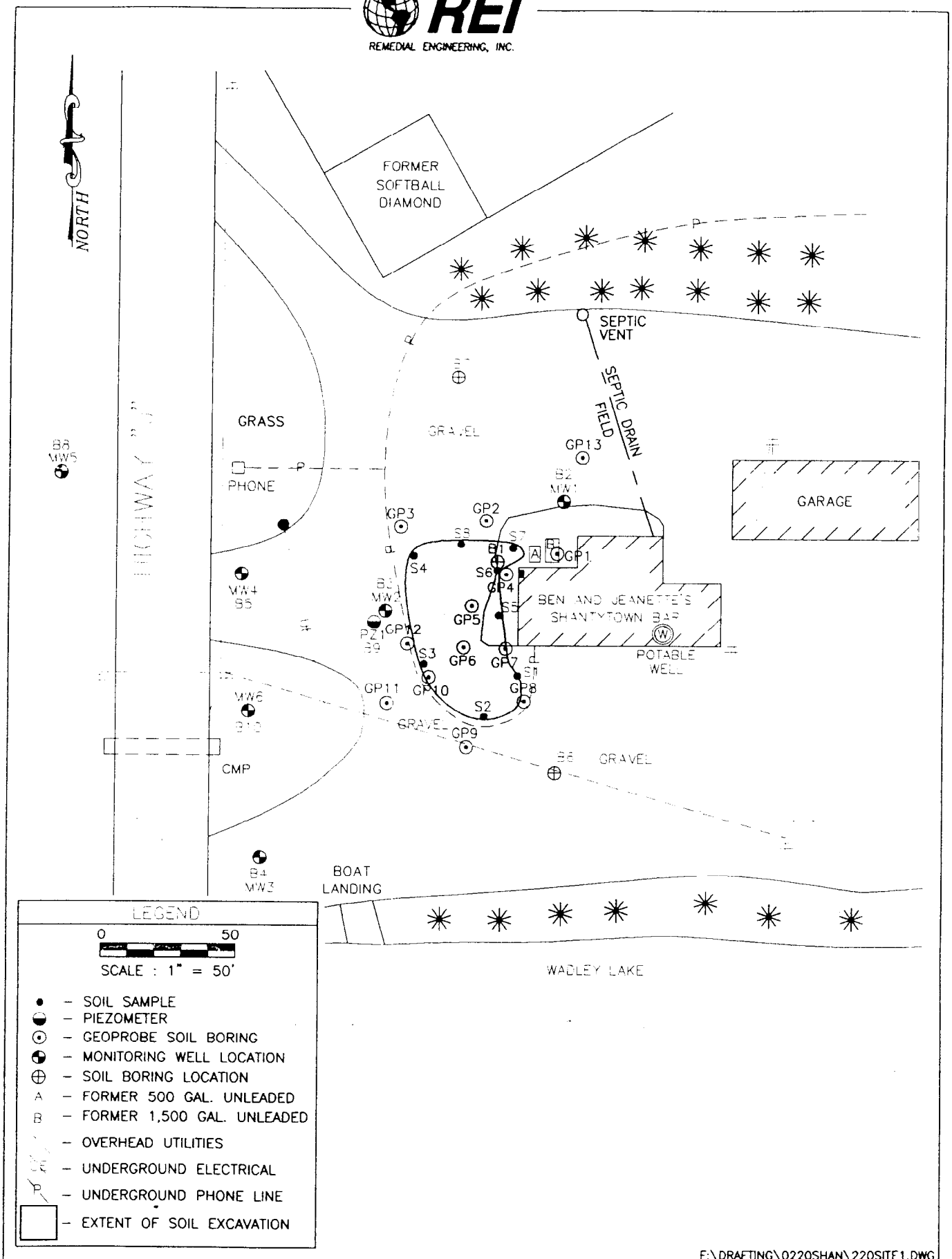
UTM GRID AND 1969 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

ROSHOLT NW, WIS.
44089-F4-TF-024

1969
PHOTOINSPECTED 1986
DMA 3173 III NW - SERIES V861

SHANTYTOWN BAR 2176 S. COUNTY HIGHWAY "J" ROSHOLT, WISCONSIN	FIGURE 1 : SITE VICINITY MAP		
	PROJECT NO. #0220	DRAWN BY: TAW	DATE: 7/8/99

REI
REMEDIAL ENGINEERING, INC.



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SHANTYTOWN BAR 2176 S. COUNTY HIGHWAY "J" ROSHOLT, WISCONSIN	FIGURE 1 : SITE MAP		
	PROJECT NO. #0220	DRAWN BY: TAW	DATE: 12/2/92

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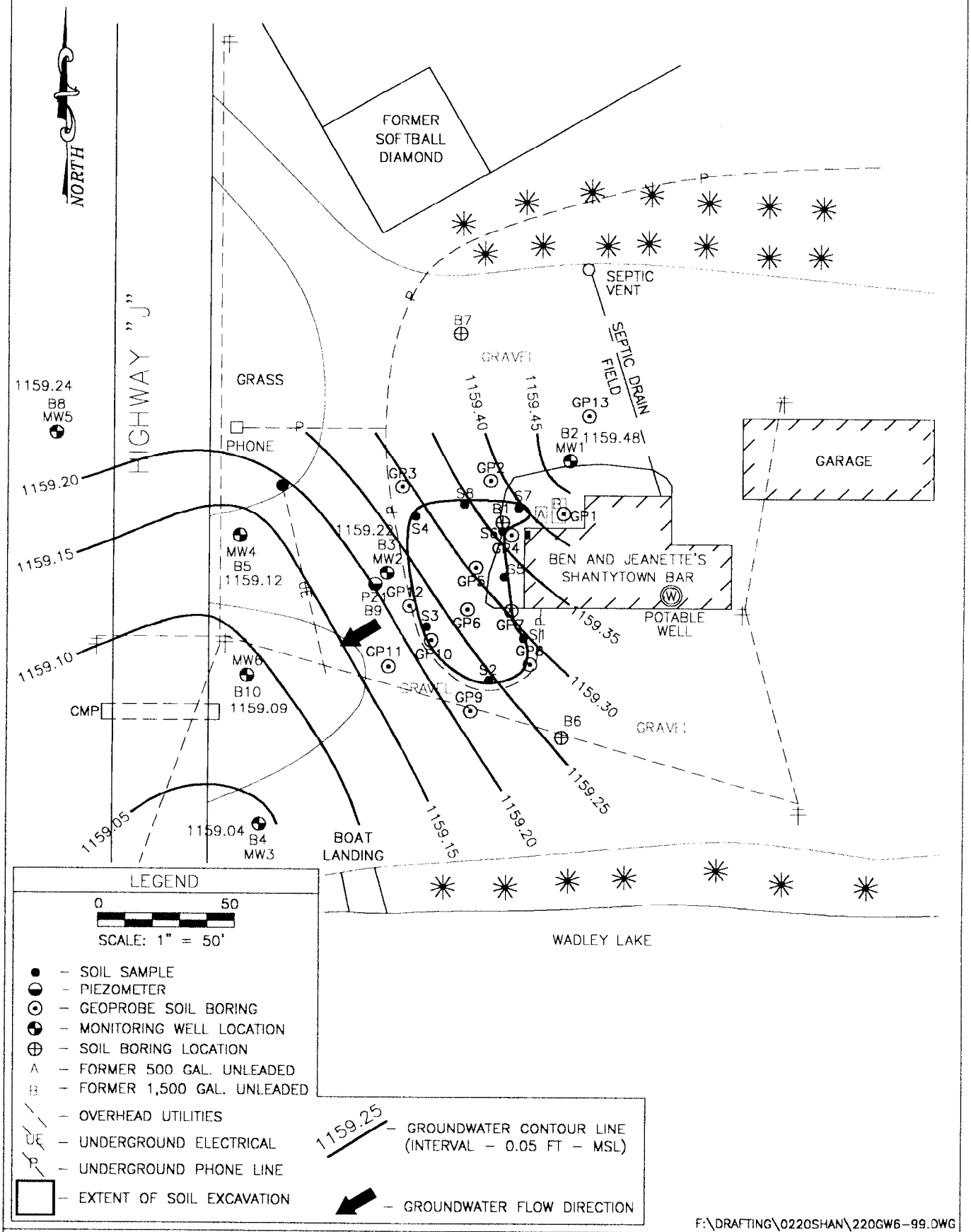
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING



LEGEND

0 50

SCALE: 1" = 50'

- SOIL SAMPLE
- PIEZOMETER
- GEOPROBE SOIL BORING
- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- A – FORMER 500 GAL. UNLEADED
- B – FORMER 1,500 GAL. UNLEADED
- OVERHEAD UTILITIES
- UE – UNDERGROUND ELECTRICAL
- P – UNDERGROUND PHONE LINE
- EXTENT OF SOIL EXCAVATION
- 1159.25 – GROUNDWATER CONTOUR LINE (INTERVAL – 0.05 FT – MSL)
- GROUNDWATER FLOW DIRECTION

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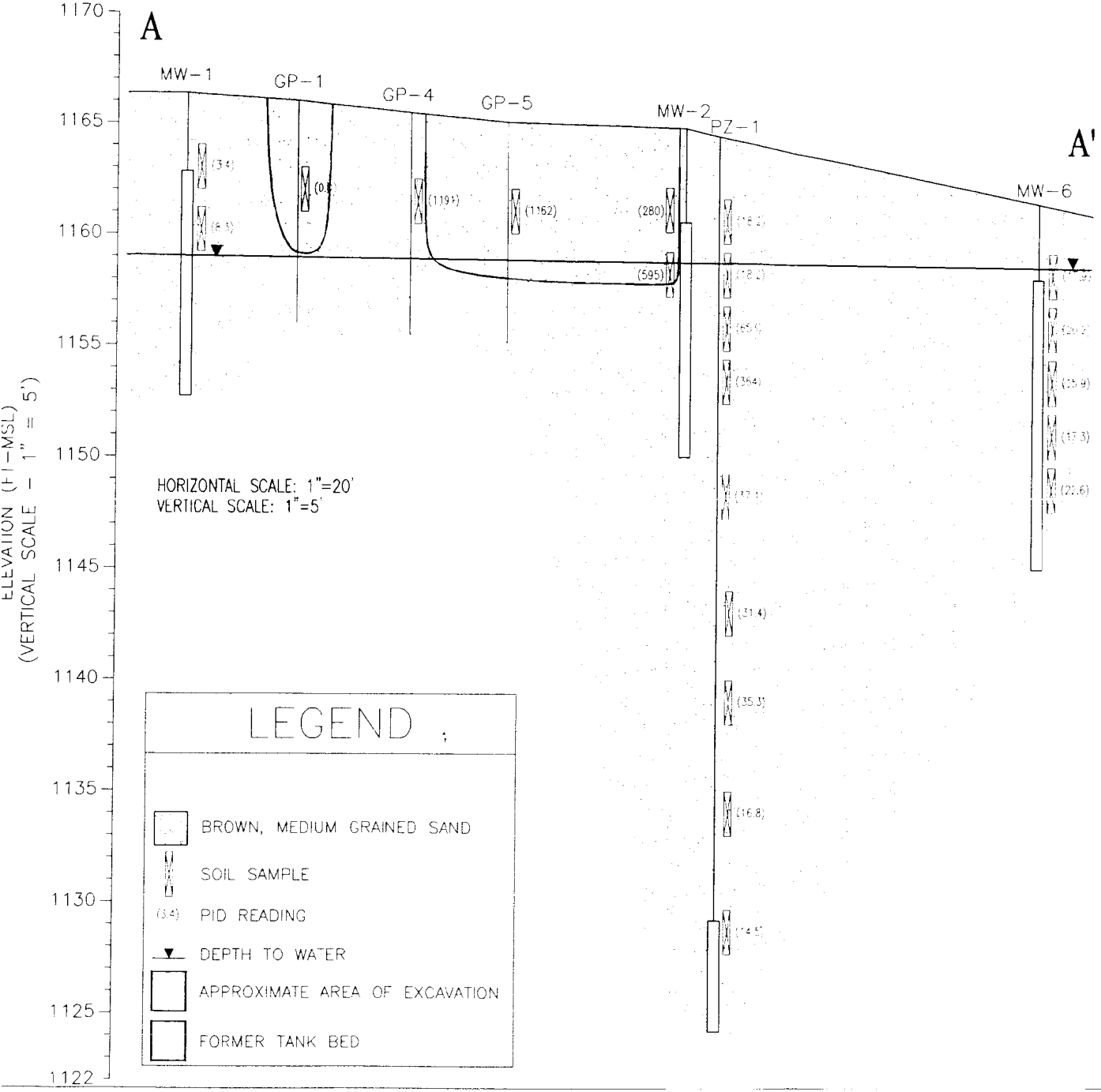
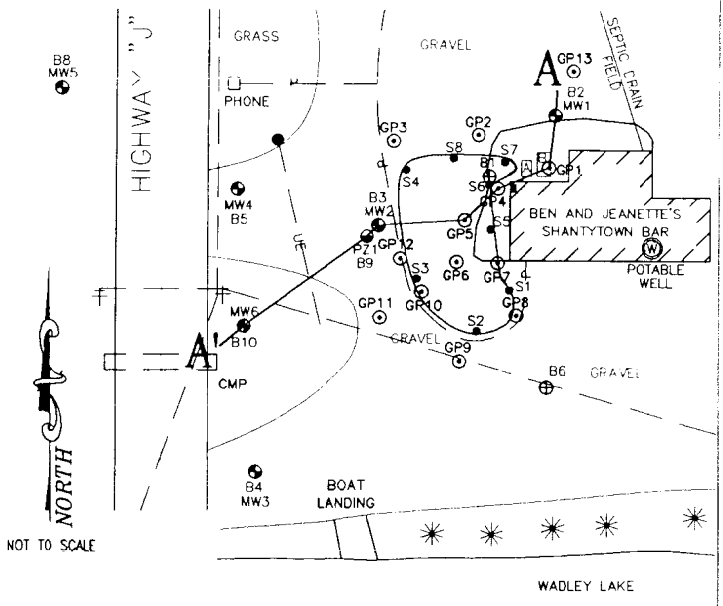
SHANTYTOWN BAR
2176 S. COUNTY HIGHWAY "J"
ROSHOLT, WISCONSIN

FIGURE 2 : GROUNDWATER CONTOUR MAP (6/17/99)

PROJECT NO.	DRAWN BY:	DATE:
#0220	TAW	7/8/99





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SHANTYTOWN BAR
2176 S. COUNTY HIGHWAY "J"
ROSHOLT, WISCONSIN

FIGURE 3 : CROSS SECTION DIAGRAM; A-A'

PROJECT No.	DRAWN BY:	DATE:
#0220	TAW	10/28/99

TABLE 1c

POST-REMEDIAL SOIL ANALYTICAL RESULTS
SHANTYTOWN BAR
ROSHOLT, WISCONSIN

		Date	07/28/1997	07/28/1997	07/28/1997	07/29/1997	07/29/1997	07/29/1997	07/29/1997	07/29/1997
		Location	S1	S2	S3	S4	S5	S6	S7	S8
		Sample Depth	3.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
PARAMETER	SSTL	RCL								
PID	-	-	55.3	NA	20.9	8.0	2.4	438.0	225.0	17.3
GRO	-	100	**310**	X	17	15	18	**1,200**	**1,400**	X
Detected PVOCs										
Benzene	57	5.5	X	X	X	**480**	**32**	**2,300**	X	**36**
Ethylbenzene	41,000	2,900	140	26	150	900	48	2,600	**110,000**	66
Toluene	16,000	1,500	480	50	140	720	190	**19,000**	**2,900**	35
Xylenes	280,000	4,100	3,100	160	1,100	4,200	890	**170,000**	**140,000**	190
MTBE	-	-	X	X	X	X	X	380	X	X
1,2,4-Trimethylbenzene	1,900	-	7,000	120	1,200	1,400	900	110,000	170,000	130
1,3,5-Trimethylbenzene	1,900	-	10,000	68	440	520	340	38,000	55,000	120

Notes:

PVOC's are in ug/kg (equivalent to parts per billion)
GRO and Pb are in mg/kg (equivalent to parts per million)
X - Concentration below Detection Limit

NA- Not Analyzed
RCL Exceedance
RCL - Residual Contaminant Level
SSTL - Site Specific Target Level (Direct Contact)
See Table 5 and Appendix E in the RAP

Table 2
Summary of Groundwater Analytical Results
Shantytown Bar
2176 S. CTY HWY Y & J

Parameter				MW1													
	ES (ppb)	PAL (ppb)	Units	10/7/93	1/20/94	8/10/94	11/30/94	6/14/96	1/21/97	4/24/97	7/2/97	10/15/97	1/30/98	6/22/98	9/28/98	12/16/98	6/17/99
VOC Parameters																	
Benzene	5	0.5	µg/l	X	X	X	X	X	X	X	X	X	X	X	X	X	<0.2
Toluene	343	68.6	µg/l	X	X	X	X	X	X	X	X	X	X	X	X	0.22	<0.5
Ethylbenzene	700	140	µg/l	X	X	X	X	X	X	X	X	X	X	X	X	X	<0.5
Xylenes (Total)	620	124	µg/l	X	X	X	X	X	X	X	X	X	X	X	X	X	<1.0
MTBE	60	12	µg/l	X	X	X	X	X	X	X	X	X	X	X	X	X	<0.3
Naphthalene	40	8	µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trimethylbenzenes (Total)	480	96	µg/l	X	X	X	X	X	X	X	X	0.2	X	X	X	X	<1.0
Isopropylbenzene			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl Ether			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO			µg/l	X	X	X	X	X	X	X	NA	NA	NA	NA	NA	NA	NA
Inorganics																	
Manganese	0.05	0.025	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.23**	NA	NA	NA	NA
Lead	15	1.5	µg/l	2.5	6.6	X	X	NA	NA	NA	NA	NA	X	NA	NA	NA	NA
Iron	0.3	0.1	mg/l	NA	NA	NA	NA	NA	NA	**0.322**	NA	NA	**5.7**	**7.9**	**1.8**	**2.1**	**2.56**
Soluble Sulfate	250	125	mg/l	NA	NA	NA	NA	NA	NA	9.51	NA	NA	6	8.8	11	11	1.22
Nitrate - N	10	2	mg/l	NA	NA	NA	NA	NA	NA	1.54	NA	NA	0.73	0.34	0.25	0.63	0.758
Field Measurements																	
Dissolved Oxygen			mg/l	NA	NA	NA	NA	NA	NA	1.11	1.70	2.64	2.46	0.47	1.80	2.43	1.01
Specific Conductance			µs/cm	NA	NA	NA	NA	NA	NA	307	336	349	233	359	346	259	385
pH				NA	NA	NA	NA	NA	NA	6.97	7.39	6.91	7.16	7.52	8.14	7.94	7.94
Temperature			°F	NA	NA	NA	NA	NA	NA	42.27	50.27	54.83	41.82	53.31	61.06	50.97	53.00
Redox Potential			mV	NA	NA	NA	NA	NA	NA	35.1	0.8	-5.01	-61	-94.5	-109.3	54.6	-13.6

Notes:

ES - NR140 Enforcement Standard
PAL - NR140 Preventive Action Limit
X - Concentration below Detection Limit
NA - Not Analyzed
Shaded where ES exceeded
Shaded where PAL exceeded

Table 2a
Summary of Groundwater Analytical Results
Shantytown Bar
2176 S. CTY HWY Y & J

Parameter				MW2															
	ES (ppb)	PAL (ppb)	Units	10/7/93	1/20/94	8/10/94	11/30/94	6/14/96	7/18/96	1/21/97	4/24/97	7/2/97	10/15/97	1/30/98	6/22/98	9/28/98	9/28/98	12/14/98	6/17/99
VOC Parameters																	Duplicate		
Benzene	5	0.5	µg/l	**18,000**	NA	**3,140**	**743**	**8,159**	**7,926**	**12,097**	**18,005**	**20,000**	**13,000**	**16,000**	**7,700**	**3,100**	**3,800**	**3,800**	**1,900**
Toluene	343	68.6	µg/l	**31,300**	NA	**2,930**	X	**1,352**	**3,561**	**28,666**	**22,286**	**26,000**	**19,000**	**29,000**	**16,000**	**18,000**	**21,000**	**20,000**	**14,300**
Ethylbenzene	700	140	µg/l	**1,680**	NA	**1,570**	X	**1,070**	**1,260**	**2,177**	**2,382**	**2,300**	**2,200**	**4,000**	**2,100**	**2,200**	**2,500**	**2,500**	**1,690**
Xylenes (Total)	620	124	µg/l	**8,060**	NA	**4,460**	**695**	**5,482**	**6,978**	**10,413**	**11,891**	**12,000**	**11,300**	**17,000**	**10,700**	**11,000**	**12,800**	**11,900**	**8,460**
MTBE	60	12	µg/l	**138**	NA	**83.2**	X	X	X	X	X	NA	X	X	X	X	X	X	<150
Naphthalene	40	8	µg/l	**377**	NA	**464**	X	X	**381**	**454**	**378**	X	**750**	**1,000**	NA	NA	NA	NA	<500
1,2-Dichloroethane	5	0.5	µg/l	**31.4**	NA	**42.0**	X	X	X	NA	NA	NA	X	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l	**35.6**	NA	**43.2**	X	X	X	NA	NA	NA	X	NA	NA	NA	NA	NA	NA
Trimethylbenzenes (Total)	480	96	µg/l	**1,615**	NA	**1,540**	X	**705**	**1,331**	**2,081**	**2,049**	**1700**	**1,870**	**3,600**	**2,010**	**2,400**	**2,870**	**2,400**	**1,375**
Isopropylbenzene			µg/l	44.4	NA	67.6	1,400	X	X	NA	NA	NA	120	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	125	NA	175	2,390	X	X	NA	NA	NA	230	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			µg/l	X	NA	21.1	X	X	X	NA	NA	NA	28	NA	NA	NA	NA	NA	NA
Isopropyl Ether			µg/l	153	NA	139	X	X	X	NA	NA	NA	X	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene			µg/l	X	NA	17.6	X	X	X	NA	NA	NA	X	NA	NA	NA	NA	NA	NA
GRO			µg/l	48,600	NA	64,700	50,900	32,200	NA	58,500	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																			
Manganese	0.05	0.025	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4**	NA	NA	NA	NA	NA
Lead	15	1.5	µg/l	**77.4**	NA	**15.6**	**23.1**	6.78	NA	NA	NA	NA	NA	0.008	NA	NA	NA	NA	NA
Iron	0.3	0.1	mg/l	NA	NA	NA	NA	NA	**0.784**	NA	**12.3**	NA	NA	**22**	**19**	**2.5**	NA	**10**	**12.8**
Soluble Sulfate	250	125	mg/l	NA	NA	NA	NA	NA	NA	NA	3.09	NA	NA	9	23	26	NA	23	22.7
Nitrate - N	10	2	mg/l	NA	NA	NA	NA	NA	NA	NA	0.501	NA	NA	1.7	0.16	0.049	NA	0.14	<0.3
Hardness as CaCO3			mg/l	NA	NA	NA	NA	NA	176	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total BOD 5			mg/l	NA	NA	NA	NA	NA	70.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonpurge Organic Carbon			mg/l	NA	NA	NA	NA	NA	44.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																			
Dissolved Oxygen			mg/l	NA	NA	NA	NA	NA	NA	NA	0.41	1.08	0.063	2.46	1.67	1.75	1.75	2.82	1.10
Specific Conductance			µs/cm	NA	NA	NA	NA	NA	NA	NA	227	529	567	283	564	674	674	518	581
pH				NA	NA	NA	NA	NA	NA	NA	0.31	6.48	6.45	7.08	6.53	6.69	6.69	6.61	5.97
Temperature			°F	NA	NA	NA	NA	NA	NA	NA	35.5	39.83	57.55	47.68	57.50	64.90	64.90	48.74	57.74
Redox Potential			mV	NA	NA	NA	NA	NA	NA	NA	-22.3	-82.8	-44.2	-33.6	-105.6	-57.5	-57.5	-64.2	-79.1

Notes:

ES - NR140 Enforcement Standard
PAL - NR140 Preventive Action Limit
X - Concentration below Detection Limit
NA - Not Analyzed
Shaded where ES exceeded
Shaded where PAL exceeded

C:\TEMP\[022606t2.xls]mw2

Table 2b
Summary of Groundwater Analytical Results
Shantytown Bar
2176 S. CTY HWY Y & J

Parameter				MW3													
	ES (ppb)	PAL (ppb)	Units	10/7/93	1/20/94	8/10/94	11/30/94	6/14/96	1/21/97	4/24/97	7/2/97	10/15/97	1/30/98	6/22/98	9/28/98	12/14/98	6/17/99
VOC Parameters																	
Benzene	5	0.5	µg/l	X	X	X	X	X	NA	X	X	X	X	X	X	X	<0.2
Toluene	343	68.6	µg/l	X	X	X	X	X	NA	X	X	X	X	4.2	0.95	X	<0.5
Ethylbenzene	700	140	µg/l	X	X	X	X	X	NA	X	X	X	X	X	X	X	<0.5
Xylenes (Total)	620	124	µg/l	X	X	X	X	X	NA	X	X	X	X	X	X	X	<1.0
MTBE	60	12	µg/l	X	X	X	X	NA	NA	X	NA	X	X	X	X	X	<0.3
Naphthalene	40	8	µg/l	X	X	1.6	X	NA	NA	X	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trimethylbenzenes (Total)	480	96	µg/l	X	X	X	X	X	NA	X	X	0.2	X	X	X	X	<1.0
Isopropylbenzene			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl Ether			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene			µg/l	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO			µg/l	X	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																	
Manganese	0.05	0.025	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.26**	NA	NA	NA	NA
Lead	15	1.5	µg/l	*10.4*	*4.3*	X	X	NA	NA	NA	NA	NA	X	NA	NA	NA	NA
Iron	0.3	0.1	mg/l	NA	NA	NA	NA	NA	NA	**5.84**	NA	NA	**4.7**	**6.2**	**4.5**	**4.5**	**6.08**
Soluble Sulfate	250	125	mg/l	NA	NA	NA	NA	NA	NA	X	NA	NA	3	10	10	17	8.16
Nitrate - N	10	2	mg/l	NA	NA	NA	NA	NA	NA	X	NA	NA	*3.4*	0.13	X	0.22	<0.3
Field Measurements																	
Dissolved Oxygen			mg/l	NA	NA	NA	NA	NA	NA	0.42	1.16	1.24	1.85	1.36	1.57	3.42	0.84
Specific Conductance			µs/cm	NA	NA	NA	NA	NA	NA	135	2.18	210	116	210	227	164	205
pH				NA	NA	NA	NA	NA	NA	6.45	6.74	6.56	6.55	6.48	7.39	6.70	5.76
Temperature			°F	NA	NA	NA	NA	NA	NA	37.54	62.31	58.85	37.51	59.81	63.50	45.59	59.65
Redox Potential			mV	NA	NA	NA	NA	NA	NA	-117.5	-69.3	-20.7	-42.9	-72.8	-62.5	-28.3	37.3

Notes:

ES - NR140 Enforcement Standard
PAL - NR140 Preventive Action Limit
X - Concentration below Detection Limit
NA - Not Analyzed
Shaded where ES exceeded
Shaded where PAL exceeded

Table 2c
Summary of Groundwater Analytical Results
Shantytown Bar
2176 S. CTY HWY Y & J

Parameter				MW4													
	ES (ppb)	PAL (ppb)	Units	10/7/93	1/20/94	8/10/94	11/30/94	6/14/96	1/21/97	4/24/97	7/2/97	10/15/97	1/30/98	6/22/98	9/28/98	12/14/98	6/17/99
VOC Parameters																	
Benzene	5	0.5	µg/l	**792**	**153**	**48.9**	*1.22*	X	*3.6*	X	X	X	X	X	X	X	<0.2
Toluene	343	68.6	µg/l	**732**	*144*	8.0	X	X	X	X	X	X	X	X	0.95	X	<0.5
Ethylbenzene	700	140	µg/l	133	*382*	52.2	X	X	X	X	X	X	X	X	X	X	<0.5
Xylenes (Total)	620	124	µg/l	*539*	**1303**	98.8	X	X	X	X	X	X	X	X	X	0.55	<1.0
MTBE	60	12	µg/l	4.1	X	X	X	X	X	X	NA	X	X	X	X	X	<0.3
Naphthalene	40	8	µg/l	**52.8**	**154**	*22.8*	X	X	*15.6*	X	X	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	µg/l	*1.8*	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l	X	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trimethylbenzenes (Total)	480	96	µg/l	**114.3**	**563**	41.2	X	X	6.03	X	X	X	X	X	1.2	0.53	<1.0
Isopropylbenzene			µg/l	6.0	X	4.4	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	16.8	53	15.0	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			µg/l	1.2	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl Ether			µg/l	17.3	26.3	6.8	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene			µg/l	X	X	1.5	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO			µg/l	3,090	3,750	800	X	X	323	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																	
Manganese	0.05	0.025	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.31**	NA	NA	NA	NA
Lead	15	1.5	µg/l	**21.6**	*9.5*	*2.4*	*2.7*	X	NA	NA	NA	NA	0.009	NA	NA	NA	NA
Iron	0.3	0.1	mg/l	NA	NA	NA	NA	NA	NA	**16.9**	NA	NA	**17**	**35**	**5.2**	**9.6**	**1.80**
Soluble Sulfate	250	125	mg/l	NA	NA	NA	NA	NA	NA	8.13	NA	NA	19	23	17	18	1.04
Nitrate - N	10	2	mg/l	NA	NA	NA	NA	NA	NA	*3.7*	NA	NA	0.10	0.14	0.084	0.15	<0.3
Field Measurements																	
Dissolved Oxygen			mg/l	NA	NA	NA	NA	NA	NA	0.47	1.5	0.56	1.45	1.92	3.47	1.33	1.48
Specific Conductance			µs/cm	NA	NA	NA	NA	NA	NA	502	472	664	305	392	416	385	404
pH				NA	NA	NA	NA	NA	NA	6.33	6.60	6.94	6.40	6.58	6.85	6.49	5.99
Temperature			°F	NA	NA	NA	NA	NA	NA	38.99	62.82	55.74	46.02	55.90	64.55	51.71	55.60
Redox Potential			mV	NA	NA	NA	NA	NA	NA	32.2	-46.1	-166.8	-73.8	-9.1	14.9	-6.7	80.8

Notes:

ES - NR140 Enforcement Standard
PAL - NR140 Preventive Action Limit
X - Concentration below Detection Limit
NA - Not Analyzed
Shaded where ES exceeded
Shaded where PAL exceeded

Table 2d
Summary of Groundwater Analytical Results
Shantytown Bar
2176 S. CTY HWY Y & J

Parameter				MW5													
	ES (ppb)	PAL (ppb)	Units	10/7/93	1/20/94	8/10/94	11/30/94	6/14/96	1/21/97	4/24/97	7/2/97	10/15/97	1/30/98	6/22/98	9/28/98	12/14/98	6/17/99
VOC Parameters																	
Benzene	5	0.5	µg/l	NA	NA	X	X	X	X	X	X	X	X	X	X	X	<0.2
Toluene	343	68.6	µg/l	NA	NA	X	3.2	X	X	X	X	X	X	X	0.88	X	<0.5
Ethylbenzene	700	140	µg/l	NA	NA	X	X	X	X	X	X	X	X	X	X	X	<0.5
Xylenes (Total)	620	124	µg/l	NA	NA	X	X	X	X	X	X	X	X	X	X	0.31	<1.0
MTBE	60	12	µg/l	NA	NA	X	X	X	X	X	NA	NA	X	X	X	X	<0.3
Naphthalene	40	8	µg/l	NA	NA	X	X	NA	NA	NA	NA	NA	X	X	X	X	NA
1,2-Dichloroethane	5	0.5	µg/l	NA	NA	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l	NA	NA	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trimethylbenzenes (Total)	480	96	µg/l	NA	NA	X	X	X	X	X	X	X	X	X	X	X	<1.0
Isopropylbenzene			µg/l	NA	NA	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	NA	NA	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			µg/l	NA	NA	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl Ether			µg/l	NA	NA	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene			µg/l	NA	NA	X	X	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO			µg/l	NA	NA	X	X	X	X	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics																	
Manganese	0.05	0.025	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	**3.6**	NA	NA	NA	NA
Lead	15	1.5	µg/l	NA	NA	4.7	X	NA	NA	NA	NA	NA	X	NA	NA	NA	NA
Iron	0.3	0.1	mg/l	NA	NA	NA	NA	NA	NA	**8.05**	NA	NA	**7.7**	**7.8**	**2.1**	**2.6**	**2.89**
Soluble Sulfate	250	125	mg/l	NA	NA	NA	NA	NA	NA	X	NA	NA	15	18	14	16	24.3
Nitrate - N	10	2	mg/l	NA	NA	NA	NA	NA	NA	X	NA	NA	0.05	0.12	0.039	0.089	<0.3
Field Measurements																	
Dissolved Oxygen			mg/l	NA	NA	NA	NA	NA	NA	1.1	2.45	1.10	4.22	1.91	2.64	3.66	1.49
Specific Conductance			µs/cm	NA	NA	NA	NA	NA	NA	556	540	614	454	631	779	614	606
pH				NA	NA	NA	NA	NA	NA	6.43	6.67	6.52	6.68	6.68	6.80	6.49	5.78
Temperature			°F	NA	NA	NA	NA	NA	NA	41.12	53.65	52.30	42.00	50.03	57.08	47.64	51.27
Redox Potential			mV	NA	NA	NA	NA	NA	NA	-53.2	-69.3	-38.1	-49.1	-53.9	4.8	51.2	26.0

Notes:

ES - NR140 Enforcement Standard
PAL - NR140 Preventive Action Limit
X - Concentration below Detection Limit
NA - Not Analyzed
Shaded where ES exceeded
Shaded where PAL exceeded

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Table 2e
Summary of Groundwater Analytical Results
Shantytown Bar
2176 S. CTY HWY Y & J

Parameter			MW6								
	ES (ppb)	PAL (ppb)	Units	7/2/97	10/15/97	1/30/98	6/22/98	9/28/98	12/14/98	Duplicate	6/17/99
VOC Parameters											
Benzene	5	0.5	µg/l	X	X	**21**	*4.2*	**6.7**	**21**	**21**	0.366
Toluene	343	68.6	µg/l	X	X	12	X	3.3	7.2	7.0	<0.5
Ethylbenzene	700	140	µg/l	0.9	0.2	75	16	24	68	66	0.630
Xylenes (Total)	620	124	µg/l	2.4	0.8	*300*	70	88	*350*	350	0.915
MTBE	60	12	µg/l	X	X	X	X	X	X	X	<0.3
Naphthalene	40	8	µg/l	*15*	NA	*15*	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	µg/l	X	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l	X	NA	NA	NA	NA	NA	NA	NA
Trimethylbenzenes (Total)	480	96	µg/l	0.8	X	12	10	1.1	12	11	1.21
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	0.7	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA	NA
Isopropyl Ether			µg/l	X	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene			µg/l	X	NA	NA	NA	NA	NA	NA	NA
GRO			µg/l	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics											
Manganese	0.05	0.025	mg/l	NA	NA	**0.22**	NA	NA	NA	NA	NA
Lead	15	1.5	µg/l	X	NA	X	NA	NA	NA	NA	NA
Iron	0.3	0.1	mg/l	1.1	NA	**2.8**	**36**	**3.1**	**3.9**	NA	**2.89**
Soluble Sulfate	250	125	mg/l	8	NA	11	14	15	14	NA	24.3
Nitrate - N	10	2	mg/l	0.44	NA	0.10	0.15	0.054	0.074	NA	<0.3
Field Measurements											
Dissolved Oxygen			mg/l	2.82	0.88	1.90	1.28	3.14	4.20	4.20	1.45
Specific Conductance			µs/cm	403	625	352	397	582	500	500	441
pH				6.42	6.18	6.30	6.33	6.93	6.31	6.31	5.64
Temperature			°F	59.13	57.01	45.37	57.20	61.64	50.18	50.18	58.61
Redox Potential			mV	-48.0	17.8	-26.5	-62.6	-31.4	-28.6	-28.6	-56.8

Notes:

ES - NR140 Enforcement Standard
PAL - NR140 Preventive Action Limit
X - Concentration below Detection Limit
NA - Not Analyzed
Shaded where ES exceeded
Shaded where PAL exceeded

Table 2f
Summary of Groundwater Analytical Results
Shantytown Bar
2176 S. CTY HWY Y & J

Parameter			PZ1							
	ES (ppb)	PAL (ppb)	Units	7/2/97	10/15/97	1/30/98	6/22/98	9/28/98	12/14/98	6/17/99
VOC Parameters										
Benzene	5	0.5	µg/l	0.5	X	X	X	X	X	<0.2
Toluene	343	68.6	µg/l	0.7	X	X	X	X	X	<0.5
Ethylbenzene	700	140	µg/l	0.3	X	X	X	X	X	<0.5
Xylenes (Total)	620	124	µg/l	1.05	X	X	X	X	X	<1.0
MTBE	60	12	µg/l	X	X	X	X	X	X	<0.3
Naphthalene	40	8	µg/l	X	NA	X	X	X	X	NA
1,2-Dichloroethane	5	0.5	µg/l	X	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l	X	NA	NA	NA	NA	NA	NA
Trimethylbenzenes (Total)	480	96	µg/l	X	X	X	X	X	X	<1.0
Isopropylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA
n-Propylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA
sec-Butylbenzene			µg/l	X	NA	NA	NA	NA	NA	NA
Isopropyl Ether			µg/l	X	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene			µg/l	X	NA	NA	NA	NA	NA	NA
GRO			µg/l	NA	NA	NA	NA	NA	NA	NA
Inorganics										
Manganese	0.05	0.025	mg/l	NA	NA	0.035	NA	NA	NA	NA
Lead	15	1.5	µg/l	X	NA	X	NA	NA	NA	NA
Iron	0.3	0.1	mg/l	X	NA	0.09	*0.11*	0.0092	0.012	<0.01
Soluble Sulfate	250	125	mg/l	11	NA	10	18	16	16	13.9
Nitrate - N	10	2	mg/l	0.84	NA	*9.6*	0.76	**53**	0.56	0.983
Field Measurements										
Dissolved Oxygen			mg/l	8.97	7.30	1.75	10.21	8.30	11.31	10.12
Specific Conductance			µs/cm	277	311	387	359	398	325	360
pH				7.58	7.28	6.46	6.82	7.12	7.65	7.06
Temperature			°F	47.55	47.45	41.40	56.74	64.40	50.21	53.07
Redox Potential			mV	0.3	-27.0	-49.9	10.8	2.8	193.1	107.9

Notes:

ES - NR140 Enforcement Standard
PAL - NR140 Preventive Action Limit
X - Concentration below Detection Limit
NA - Not Analyzed
Shaded where ES exceeded
Shaded where PAL exceeded

Table 2g
Summary of Groundwater Analytical Results
Shantytown Bar
2176 S. CTY HWY Y & J

Parameter				Potable Well												
	ES (ppb)	PAL (ppb)	Units	10/7/93	1/20/94	8/10/94	11/30/94	6/14/96	1/21/97	4/24/97	7/2/97	10/15/97	1/30/98	6/22/98	12/14/98	6/17/99
VOC Parameters																
Benzene	5	0.5	µg/l	NA	X	NA	X	X	NA	NA	X	X	X	X	X	<0.5
Toluene	343	68.6	µg/l	NA	X	NA	X	X	NA	NA	X	X	X	X	X	<0.5
Ethylbenzene	700	140	µg/l	NA	X	NA	X	X	NA	NA	X	X	X	X	X	<0.5
Xylenes (Total)	620	124	µg/l	NA	X	NA	X	X	NA	NA	X	X	X	X	X	<1.0
MTBE	60	12	µg/l	NA	X	NA	X	NA	NA	NA	X	X	X	X	X	NA
Naphthalene	40	8	µg/l	NA	X	NA	X	NA	NA	NA	X	X	X	NA	X	NA
1,2-Dichloroethane	5	0.5	µg/l	NA	X	NA	X	NA	NA	NA	X	X	X	NA	X	<0.5
1,2-Dibromoethane	0.05	0.005	µg/l	NA	X	NA	X	NA	NA	NA	X	X	X	NA	X	<0.5
Trimethylbenzenes (Total)	480	96	µg/l	NA	X	NA	X	X	NA	NA	X	X	X	X	X	NA
Isopropylbenzene			µg/l	NA	X	NA	X	NA	NA	NA	X	X	X	NA	X	NA
n-Propylbenzene			µg/l	NA	X	NA	X	NA	NA	NA	X	X	X	NA	X	NA
sec-Butylbenzene			µg/l	NA	X	NA	X	NA	NA	NA	X	X	X	NA	X	NA
Isopropyl Ether			µg/l	NA	X	NA	X	NA	NA	NA	X	X	X	NA	X	NA
p-Isopropyltoluene			µg/l	NA	X	NA	X	NA	NA	NA	X	X	X	NA	X	NA
GRO			µg/l	NA	X	NA	X	X	NA	NA	X	X	X	NA	NA	NA
Inorganics																
Lead	15	1.5	µg/l	NA	X	NA	X	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	0.3	0.1	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Soluble Sulfate			mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate - N	10	2	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements																
Dissolved Oxygen			mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Specific Conductance			µs/cm	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Temperature			°F	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Redox Potential			mV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

ES - NR140 Enforcement Standard
PAL - NR140 Preventive Action Limit
X - Concentration below Detection Limit
NA - Not Analyzed
Shaded where ES exceeded
Shaded where PAL exceeded