

PRELIMINARY
APPENDIX FOUR

Part A Permit Application

<p>SEND COMPLETED FORM TO: : Appropriate State or EPA Regional Office.</p>	<p>United States Environmental Protection Agency</p> <p>RCRA SUBTITLE C SITE IDENTIFICATION FORM</p>		
<p>1. Reason for Submittal (See instructions on page 9)</p> <p>MARK ALL BOX(ES) THAT APPLY</p>	<p>Reason for Submittal:</p> <p><input type="checkbox"/> To provide Initial Notification of Regulated Waste Activity (to obtain an EPA ID Number for hazardous waste, universal waste, or used oil activities)</p> <p><input type="checkbox"/> To provide Subsequent Notification of Regulated Waste Activity (to update site identification information)</p> <p><input type="checkbox"/> As a component of a First RCRA Hazardous Waste Part A Permit Application</p> <p><input checked="" type="checkbox"/> As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment # _____)</p> <p><input type="checkbox"/> As a component of the Hazardous Waste Report</p>		
<p>2. Site EPA ID Number (page 10)</p>	<p>EPA ID Number</p> <p style="text-align: center;"> A Z T 0 0 0 6 1 2 1 3 5 </p>		
<p>3. Site Name (page 10)</p>	<p>Name: Conn-Selmer Corrective Action Management Unit</p>		
<p>4. Site Location Information (page 10)</p>	<p>Street Address: 1310 W. Fairway Drive</p> <p>City, Town, or Village: Nogales State: AZ</p> <p>County Name: Santa Cruz Zip Code: 85621</p>		
<p>5. Site Land Type (page 10)</p>	<p>Site Land Type: <input checked="" type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Indian <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> C</p>		
<p>6. North American Industry Classification System (NAICS) Code(s) for the Site (page 10)</p>	<p>A. Mfg No Longer Conducted</p>	<p>B.</p>	<p>C.</p> <p>D.</p>
<p>7. Site Mailing Address (page 11)</p>	<p>Street or P. O. Box: PO Box 310</p> <p>City, Town, or Village: Elkhart</p> <p>State: IN</p> <p>Country: United States Zip Code: 46515</p>		
<p>8. Site Contact Person (page 11)</p>	<p>First Name: Timothy</p>	<p>MI: M.</p>	<p>Last Name: Bock</p>
	<p>Phone Number: 574.523.0693 Extension:</p>		<p>E-mail address: tbock@conn-selmer.com</p>
<p>9. Operator and Legal Owner of the Site (pages 11 and 12)</p>	<p>A. Name of Site's Operator: Conn-Selmer</p>		<p>Date Became Operator (mm/dd/yyyy): 01/01/2003</p>
	<p>Operator Type: <input checked="" type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Indian <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other</p>		
	<p>B. Name of Site's Legal Owner: AD&R Fairway</p>		<p>Date Became Owner (mm/dd/yyyy): 12/02/2004</p>
	<p>Owner Type: <input checked="" type="checkbox"/> Private <input type="checkbox"/> County <input type="checkbox"/> District <input type="checkbox"/> Federal <input type="checkbox"/> Indian <input type="checkbox"/> Municipal <input type="checkbox"/> State <input type="checkbox"/> Other</p>		

9. Legal Owner (Continued) Address	Street or P. O. Box: 1331 Fairway Drive	
	City, Town, or Village: Nogales	
	State: AZ	
	Country: United States	Zip Code: 85621

10. Type of Regulated Waste Activity
Mark "Yes" or "No" for all activities; complete any additional boxes as instructed. (See instructions on pages 13 to 16.)

A. Hazardous Waste Activities

Complete all parts for 1 through 6.

- N 1. Generator of Hazardous Waste
If "Yes", choose only one of the following - a, b, or c.
- a. LQG: Greater than 1,000 kg/mo (2,200 lbs./mo.) of non-acute hazardous waste; or
 - b. SQG: 100 to 1,000 kg/mo (220 - 2,200 lbs./mo.) of non-acute hazardous waste; or
 - c. CESQG: Less than 100 kg/mo (220 lbs./mo.) of non-acute hazardous waste

In addition, indicate other generator activities.

- N d. United States Importer of Hazardous Waste
- N e. Mixed Waste (hazardous and radioactive) Generator

- N 2. Transporter of Hazardous Waste
- N 3. Treater, Storer, or Disposer of Hazardous Waste (at your site) Note: A hazardous waste permit is required for this activity.
- N 4. Recycler of Hazardous Waste (at your site)
- N 5. Exempt Boiler and/or Industrial Furnace
If "Yes", mark each that applies.
 - a. Small Quantity On-site Burner Exemption
 - b. Smelting, Melting, and Refining Furnace Exemption
- N 6. Underground Injection Control

B. Universal Waste Activities

- N 1. Large Quantity Handler of Universal Waste (accumulate 5,000 kg or more) [refer to your State regulations to determine what is regulated]. Indicate types of universal waste generated and/or accumulated at your site. If "Yes", mark all boxes that apply:

	<u>Generate</u>	<u>Accumulate</u>
a. Batteries	<input type="checkbox"/>	<input type="checkbox"/>
b. Pesticides	<input type="checkbox"/>	<input type="checkbox"/>
c. Thermostats	<input type="checkbox"/>	<input type="checkbox"/>
d. Lamps	<input type="checkbox"/>	<input type="checkbox"/>
e. Other (specify) _____	<input type="checkbox"/>	<input type="checkbox"/>
f. Other (specify) _____	<input type="checkbox"/>	<input type="checkbox"/>
g. Other (specify) _____	<input type="checkbox"/>	<input type="checkbox"/>

- N 2. Destination Facility for Universal Waste
Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities

Mark all boxes that apply.

- N 1. Used Oil Transporter
If "Yes", mark each that applies.
 - a. Transporter
 - b. Transfer Facility
- N 2. Used Oil Processor and/or Re-refiner
If "Yes", mark each that applies.
 - a. Processor
 - b. Re-refiner
- N 3. Off-Specification Used Oil Burner
- N 4. Used Oil Fuel Marketer
If "Yes", mark each that applies.
 - a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
 - b. Marketer Who First Claims the Used Oil Meets the Specifications

11. Description of Hazardous Wastes (See instructions on page 17.)

A. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

F001						
F002						

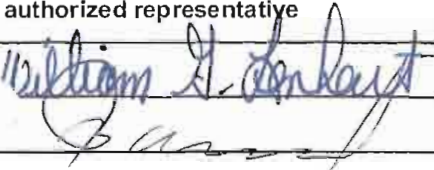
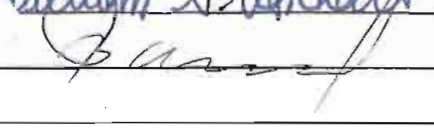
B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes. Please list the waste codes of the State-regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed for waste codes.

12. Comments (See instructions on page 17.)

No hazardous or non-hazardous waste was generated from this site in 2005. Conn-Selmer facility ceased production activities in December 2003 and completed decommission activities in 2004.

13. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(See instructions on page 17.)

Signature of operator, owner, or an authorized representative	Name and Official Title (type or print)	Date Signed (mm/dd/yyyy)
	William G. LENHART - V.P. H.R.	10 26 2006
	Madeline A. Casigney Managing Member	11/29/

United States Environmental Protection Agency
HAZARDOUS WASTE PERMIT INFORMATION FORM

1. Facility Permit Contact (See instructions on page 23)	First Name: Same as Site Contact	MI:	Last Name:
	Phone Number:		Phone Number Extension:
2. Facility Permit Contact Mailing Address (See instructions on page 23)	Street or P.O. Box: Same as Site Contact		
	City, Town, or Village:		
	State:		
	Country:	Zip Code:	
3. Operator Mailing Address and Telephone Number (See instructions on page 23)	Street or P.O. Box: P.O. Box 310		
	City, Town, or Village: Elkhart		
	State: IN		
	Country: USA	Zip Code: 46515	Phone Number (574)523-0693
4. Owner Mailing Address and Telephone Number (See instructions on page 23)	Street or P.O. Box: 1331 W. Fairway Drive		
	City, Town, or Village: Nogales		
	State: AZ		
	Country: USA	Zip Code: 85621	Phone Number (520)377-2085
5. Facility Existence Date (See instructions on page 24)	Facility Existence Date (mm/dd/yyyy): 1966		

6. Other Environmental Permits (See instructions on page 24)													
A. Permit Type (Enter code)	B. Permit Number											C. Description	
E	P	1	0	0	3	1	1						ADEQ Aquifer Protection Permit

7. Nature of Business (Provide a brief description; see instructions on page 24)

Conn-Selmer, Inc. (formerly United Musical Instruments USA, Inc.) manufactured musical instruments such as flutes and clarinets. Operations began in 1966. The manufacturing process involved all phases of production from delivery of raw materials (sheet metal, wood, etc.) shipping of finished instruments for sale. Industrial wastes generated from manufacturing included TCE, Hydrochloric acid, sulfuric acid, and other metal cleaning solutions. Manufacturing operations ceased at the site December 2003, and decommissioning was completed in 2004.

8. Process Codes and Design Capacities (See instructions on page 24) - Enter information in the Sections on Form Page 3.

A. PROCESS CODE - Enter the code from the list of process codes in the table below that best describes each process to be used at the facility. Fifteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), enter the process information in Item 9 (including a description).

B. PROCESS DESIGN CAPACITY- For each code entered in Section A, enter the capacity of the process.

1. AMOUNT - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.
2. UNIT OF MEASURE - For each amount entered in Section B(1), enter the code in Section B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.

C. PROCESS TOTAL NUMBER OF UNITS - Enter the total number of units for each corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	<u>Disposal:</u>			<u>Treatment (continued):</u>	
D79	Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day	T81	Cement Kiln	For T81-T93:
D80	Landfill	Acre-feet; Hectare-meter; Acres; Cubic Meters; Hectares; Cubic Yards	T82	Lime Kiln	
D81	Land Treatment	Acres or Hectares	T83	Aggregate Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Liters Per Hour; Kilograms Per Hour; or Million Btu Per Hour
D82	Ocean Disposal	Gallons Per Day or Liters Per Day	T84	Phosphate Kiln	
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards	T85	Coke Oven	
D99	Other Disposal	Any Unit of Measure in Code Table Below	T86	Blast Furnace	
	<u>Storage:</u>		T87	Smelting, Melting, or Refining Furnace	
S01	Container	Gallons; Liters; Cubic Meters; or Cubic Yards	T88	Titanium Dioxide Chloride Oxidation Reactor	
	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	T89	Methane Reforming Furnace	
S03	Waste Pile	Cubic Yards or Cubic Meters	T90	Pulping Liquor Recovery Furnace	
S04	Surface Impoundment Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid	
S05	Drip Pad	Gallons; Liters; Acres; Cubic Meters; Hectares; or Cubic Yards	T92	Halogen Acid Furnaces	
S06	Containment Building Storage	Cubic Yards or Cubic Meters	T93	Other Industrial Furnaces Listed In 40 CFR §260.10	
S99	Other Storage	Any Unit of Measure in Code Table Below	T94	Containment Building - Treatment	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour
	<u>Treatment:</u>			<u>Miscellaneous (Subpart X):</u>	
T01	Tank Treatment	Gallons Per Day; Liters Per Day	X01	Open Burning/Open Detonation	Any Unit of Measure in Code Table Below
T02	Surface Impoundment Treatment	Gallons Per Day; Liters Per Day	X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day; Pounds Per Hour; Kilograms Per Hour; Gallons Per Hour; Liters Per Hour; or Gallons Per Day
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour	X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Gallons Per Day; Liters Per Hour; or Million Btu Per Hour
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Gallons Per Day; Liters Per Hour; or Million Btu Per Hour	X04	Geologic Repository	Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per Hour; Btu Per Hour; or Million Btu Per Hour	X99	Other Subpart X	Any Unit of Measure Listed Below

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons.....	G	Short Tons Per Hour.....	D	Cubic Yards.....	Y
Gallons Per Hour.....	E	Metric Tons Per Hour.....	W	Cubic Meters.....	C
Gallons Per Day.....	U	Short Tons Per Day.....	N	Acres.....	B
Liters.....	L	Metric Tons Per Day.....	S	Acre-feet.....	A
Liters Per Hour.....	H	Pounds Per Hour.....	J	Hectares.....	Q
Liters Per Day.....	V	Kilograms Per Hour.....	R	Hectare-meter.....	F
		Million Btu Per Hour.....	X	Btu Per Hour.....	I

8. Process Codes and Design Capacities (Continued)

EXAMPLE FOR COMPLETING Item 8 (shown in line number X-1 below): A facility has a storage tank, which can hold 533.788 gallons.

Line Number	A. Process Code (From list above)				B. PROCESS DESIGN CAPACITY		C. Process Total Number of Units	For Official Use Only				
					(1) Amount (Specify)	(2) Unit of Measure (Enter code)						
X 1	S	0	2		5 3 3 . 7 8 8	G	0 0 1					
1	T	0	4		216,000 . 000	U	0 0 2					
2	S	0	2		13,000 . 000	U	0 0 2					
3												
4												
5												
6												
7												
8												
9												
1 0												
1 1												
1 2												
1 3												
1 4												
5												

NOTE: If you need to list more than 15 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for "other" processes (i.e., D99, S99, T04 and X99) in Item 9.

9. Other Processes (See instructions on page 25 and follow instructions from Item 8 for D99, S99, T04 and X99 process codes)

Line Number (Enter #s in sequence with Item 8)	A. Process Code (From list above)				B. PROCESS DESIGN CAPACITY		C. Process Total Number of Units	D. Description of Process			
					(1) Amount (Specify)	(2) Unit of Measure (Enter code)					
X 2	T	0	4		1 0 0 . 0 0 0	U	0 0 1	In-situ Vitrification			
1	T	0	4		216,000 . 000	U	0 0 2	Air Strippers (see attachment A of Original Part-A Submittal.)			

10. Description of Hazardous Wastes (See instructions on page 25) - Enter information in the Sections on Form Page 5.

- A. EPA HAZARDOUS WASTE NUMBER - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in Section A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Section A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE - For each quantity entered in Section B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the listed hazardous wastes.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
 2. Enter "000" in the extreme right box of Item 10.D(1).
 3. Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 10.E.
2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in Item 10.D(2) or in Item 10.E(2).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in Section A. On the same line complete Sections B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In Section A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Section D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING Item 10 (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA Hazardous Waste No. (Enter code)				B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	D. PROCESSES					(2) PROCESS DESCRIPTION- (If a code is not entered in D(1))	
	(1) PROCESS CODES (Enter code)												
X 1	K	0	5	4	900	P	T	0	3	D	8	0	
2	D	0	0	2	400	P	T	0	3	D	8	0	
3	D	0	0	1	100	P	T	0	3	D	8	0	
X 4	D	0	0	2									Included With Above

10. Description of Hazardous Wastes (Continued. Use the Additional Sheet(s) as necessary; number pages as 5 a, etc.)

Line Number	A. EPA Hazardous Waste No. (Enter code)	B. Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)	D. PROCESSES																
				(1) PROCESS CODES (Enter code)										(2) PROCESS DESCRIPTION (If a code is not entered in D(1))						
1	F 0 0 1	100	P	T	0	4	S	0	2											
2	F 0 0 2	10	P	T	0	4	S	0	2											
3																				
4																				
5																				
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11. Map (See instructions on pages 25 and 26) See previous Part A Submittal

Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

12. Facility Drawing (See instructions on page 26) See previous Part A Submittal

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

13. Photographs (See instructions on page 26) See previous Part A Submittal

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

14. Comments (See instructions on page 26)

Waste codes D001 through D011 and F006, in section 10 are no longer generated at the facility.

Details on property transaction:

Conn-Selmer sold the property, located at 1310 West Fairway Drive, December 2, 2004 to AD & R Fairway, LLC, 1331 West Fairway Drive. The Cosent Order currently governing the site was fully disclosed to AD & R Fairway (see attached "Commercial Real Estate Purchase Contract" and the first amendment to same).

As part of the transaction, AD&R Fairway agreed to provide Conn-Selmer the control center and office space inside the building, and the fenced-in area comprising Corrective Action Management Unit, at no cost to Conn-Selmer, and allow its representatives access to the site for the purpose of managing the Corrective Action Management Unit and conducting groundwater sampling. In turn, Conn-Selmer retained full responsibility for the continued compliance and costs of the Corrective Action Management Unit until such time that its obligations have been determined to have been met by the ADEQ.

For EPA Regional Use Only Date Received Month: Day: Year:	 United States Environmental Protection Agency Washington, DC 20460 <h2 style="margin: 0;">Hazardous Waste Permit Application</h2> <h3 style="margin: 0;">Part A</h3> <p style="font-size: small; color: gray;">(Read the Instructions before starting)</p>
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I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

<input type="checkbox"/> A. First Part A Submission	<input type="checkbox"/> B. Part A Amendment #
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C. Installation's EPA ID Number: A Z T 0 0 0 6 1 2 1 3 5	D. Secondary ID Number (if applicable): A Z D 9 8 2 4 3 8 0 0 4
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II. Name of Facility

U N I T E D M U S I C A L I N S T R U M E N T S U S A

III. Facility Location (Physical address not P.O. Box or Route Number)

A. Street:
 1 | 3 | 1 | 0 | W . | F A I R W A Y | D R I V E

Street (Continued):

City or Town: N O G A L E S	State: A Z	Zip Code: 8 5 6 2 1
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County Code: <small>(if known)</small>	County Name: S A N T A C R U Z
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B. Land Type: <small>(Enter code)</small>	C. Geographic Location: LATITUDE (Degrees, Minutes, & Seconds): LONGITUDE (Degrees, Minutes & Seconds):	D. Facility Existence Date: Month: Day: Year:
P	3 1 2 3 0 2 4 1 1 0 5 7 0 4 5	1 9 6 6

IV. Facility Mailing Address

Street or P.O. Box:
 S A M E A S F A C I L I T Y L O C A T I O N

City or Town:	State:	Zip Code:
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V. Facility Contact (Person to be contacted regarding waste activities at facility)

Name (Last): H A R T M A N	(First): R O B E R T E.
Job Title: E N V I R O N . M A N A G E R	Phone Number (Area Code and Number): 5 2 0 - 2 8 1 - 1 9 7 0

VI. Facility Contact Address (See instructions)

Contact Address <input checked="" type="checkbox"/> Mailing <input type="checkbox"/> Other	B. Street or P.O. Box
X	

City or Town:	State:	Zip Code:
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Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

D: Number (Enter from page 1) **A Z T 0 0 0 6 1 2 1 3 5** Secondary ID Number (Enter from page 1) **A Z D 9 8 2 4 3 8 0 0 4**

VII: Operator Information (See instructions)

Name of Operator: **UNITED MUSICAL INSTRUMENTS USA INC**

Street or P.O. Box: **1 3 1 0 W. FAIRWAY DRIVE**

City or Town: **NOGALES** State: **AZ** ZIP Code: **8 5 6 2 1 -**

Phone Number (Area Code and Number): **5 2 0 - 2 8 1 - 1 9 7 0**

B: Operator Type: **P** C: Change of Operator Indicator: **No** Date Changed: **X**

VIII: Facility Owner (See instructions)

A: Name of Facility's Legal Owner: **UNITED MUSICAL INSTRUMENTS USA INC**

Street or P.O. Box: **1 3 1 0 W. FAIRWAY DRIVE**

City or Town: **NOGALES** State: **AZ** ZIP Code: **8 5 6 2 1 -**

Phone Number (Area Code and Number): **5 2 0 - 2 8 1 - 1 9 7 0**

B: Owner Type: **P** C: Change of Owner Indicator: **No** Date Changed: **X**

IX: SIC Codes (4 digit in order of significance)

Primary	Secondary
3 9 3 1 (Description) Manufacturing of flutes & clarinets	3 4 7 1 (Description) METAL BUFFING
3 4 7 1 (Description) Plating of musical instruments	2 8 1 9 (Description) Silver and nickel plating

X: Other Environmental Permits (See instructions)

A: Permit Type (Enter code)	B: Permit Number	C: Description
R	A Z T 0 0 0 6 1 2 1 3 5	INTERIM STATUS
E	P 5 1 8 4 7 2	ADWR Poor Quality Groundwater Withdrawal Permit
E	G - 0 0 0 4 - 1 2	ADEQ Groundwater Quality Protection Permit
E	1 0 0 0 3 8 8	ADEQ Air Permit Application
E	4 5 0 0 2	ADEQ Operating Permit
N	A Z R 0 0 A 4 4 2	NPDES Storm Water Permit

EPA ID Number (Enter from page 1)	Secondary ID Number (Enter from page 1)
Z T 0 0 0 6 1 2 1 3 5	A Z D 9 8 2 4 3 8 0 0 4

XI Nature of Business (Provide a brief description)

SEE ATTACHMENT A
ITEM XI

XII Process Codes and Design Capacities

EXAMPLE FOR COMPLETING ITEM XII (shown in line number 1 below): Facility has a storage tank which can hold 500,000 gallons.

Line Number	Process Code	B PROCESS DESIGN CAPACITY				C Process Total Number Of Units	D For Office Use Only				
		Amount (Specify)					Unit Of Measure (Enter code)				
1	T 0 4	500,000				U	2				
2	S 0 2	13,000				U	2				
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											

NOTE: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for other processes (i.e. D99, S99, T04 and X99 in item XIII).

XIII Other Processes (Follow instructions from item XII for D99, S99, T04 and X99 process codes)

Line Number	Process Code	B PROCESS DESIGN CAPACITY				C Process Total Number Of Units	D Description Of Process	
		Amount (Specify)						Unit Of Measure (Enter code)
X	T 0 4	216,000				U	2	SEE ATTACHMENT A ITEM XIII. D.

EPA ID Number (Enter from page 1)	Secondary ID Number (Enter from page 1)
Z T 0 0 0 6 1 2 1 3 5	A Z D 9 8 2 4 3 8 0 0

XIV. Description of Hazardous Wastes

Line Number	A. EPA HAZARDOUS WASTE NO. (Enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESSES			
				(1) PROCESS CODES (Enter code)		(2) PROCESS DESCRIPTION (If a code is not entered in D1)	
1	F 0 0 1	715	P	T 0 4	S 0 2		air stripping of TCE
2	F 0 0 1	15,000	P	S 0 1			
3	F 0 0 2	1,917	P	T 0 4	S 0 2		air stripping of 1,1,1-TCA
4	F 0 0 3	600	P	S 0 1			
5	F 0 0 5	600	P	S 0 1			
6	F 0 0 6	41,963	P	S 0 1			
7	D 0 0 1	5,346	P	S 0 1			
8	D 0 0 2	2,100	P	S 0 1			
9	D 0 0 6	4,764	P	S 0 1			
1 0	D 0 0 7	2,600	P	S 0 1			
1 1	D 0 0 8	4,764	P	S 0 1			
1 2	D 0 1 1	5,000	P	S 0 1			
1 3	D 0 1 8	2,164	P	S 0 1			
1 4	D 0 3 5	2,164	P	S 0 1			
1 5	D 0 3 9	2,164	P	S 0 1			
1 6	D 0 4 0	2,164	P	S 0 1			
1 7							
1 8							
1 9							
2 0							
2 1							
2 2							
2 3							
2 4							
2 5							
2 6							
2 7							
2 8							
2 9							
0							
3 1							
3 2							
3 3							

EPA ID Number (Enter from page 1)												Secondary ID Number (Enter from page 1)											
A	Z	T	0	0	0	6	1	2	1	3	5	A	Z	D	9	8	2	4	3	8	0	0	4

Map

Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

XVI Facility Drawing

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

XVII Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

XVIII Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert R. Rubin

12/27/97

Signature

Date Signed

Name and Official Title (Type or print)

Owner Signature

Date Signed

Name and Official Title (Type or print)

Operator Signature

Date Signed

Name and Official Title (Type or print)

Operator Signature

Date Signed

Name and Official Title (Type or print)

XIX Comments

Annual quantities listed in Section XIV were obtained from the 1996 Hazardous Waste Report for UMI.

Note: Mail completed form to the appropriate EPA Regional or State Office. (Refer to instructions for more information)

ATTACHMENT A

XI. Nature of Business

Manufacturer of Musical Instruments:

United Musical Instruments USA, Inc. (formerly C.G. Conn) manufactures musical instruments such as, flutes and clarinets. Operations began in 1966. The manufacturing process involves all phases of production, from delivery of raw materials (sheet metal, wood, etc.) to shipping of finished instruments for sale. Industrial wastes generated from the manufacturing process include: trichloroethylene (TCE), hydrochloric acid, sulfuric acid, and other metal cleaning solutions.

XIII. OTHER PROCESSES

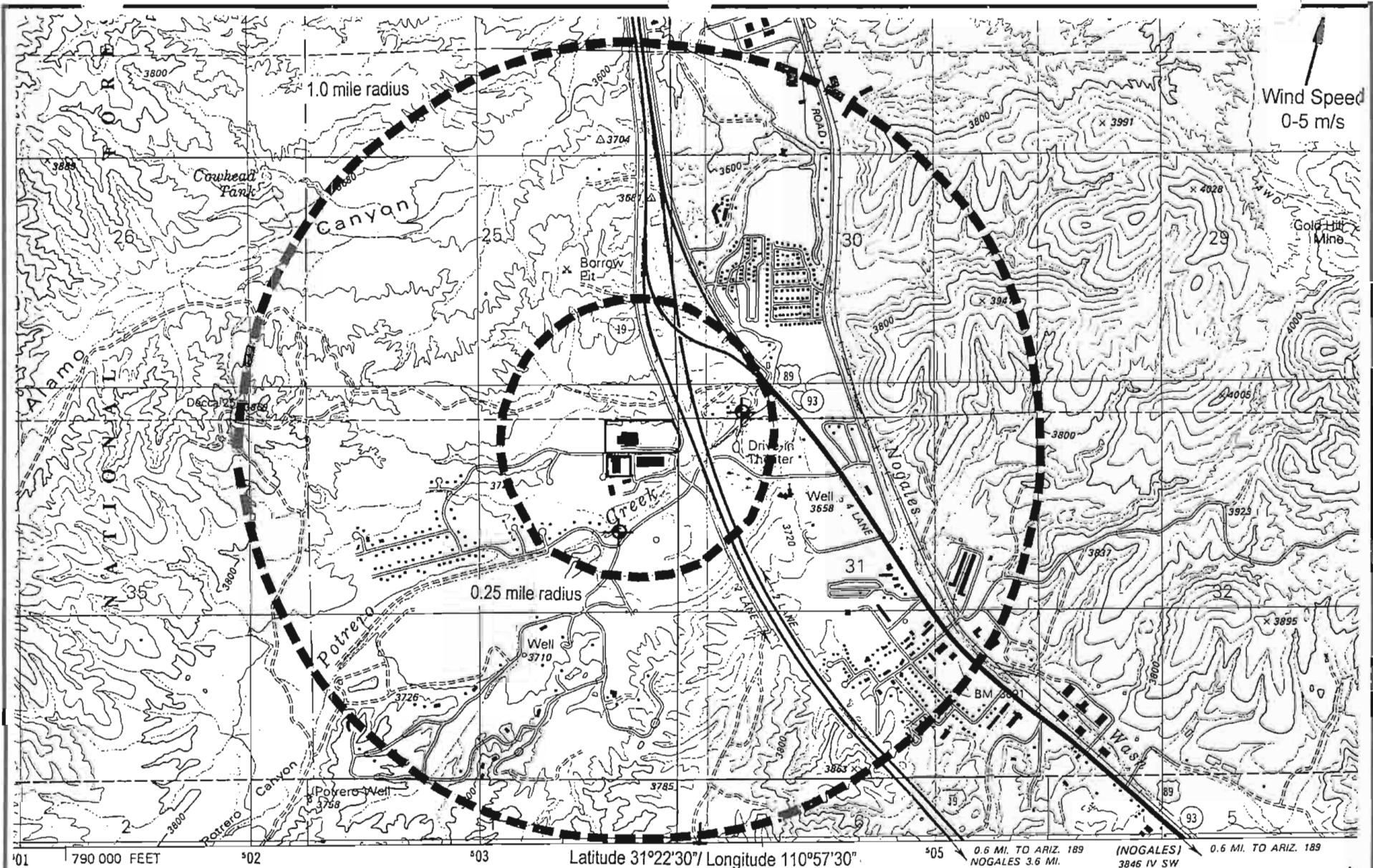
D. Description of Process

To mitigate the impacts of contamination on groundwater resources, UMI installed two conventional air stripping towers operated in series to remove volatile organic compounds from extracted groundwater at the Nogales facility. Figure A4-3 presents a process and instrumentation diagram for the installed equipment.

Normal process flow through the treatment system begins at a groundwater extraction well (EW-2) located immediately north of the UMI property. A 15-horsepower electric submersible pump is used to transfer extracted groundwater at a maximum flow rate of approximately 75 gallons per minute (gpm) into a 6,500 gallon above ground equalization tank (Tank 1) prior to treatment. Upper and lower level controls on Tank 1 regulate the operation of Feed Pump P-1 which discharges water to the top of the first air stripping tower (A-1) at a constant rate of approximately 150 gpm. Water flows through the tower and into a level controlled sump at the base of the tower. It is then pumped to the top of the second air stripping tower (A-2) via Transfer Pump P-2 at a variable rate no higher than 150 gpm. From the level controlled sump at the base of A-2, the treated groundwater is discharged into a 6,500 gallon above ground holding tank (Tank 2). From Tank 2 the treated groundwater is pumped to a geosynthetic-lined pond at Meadow Hills Golf Course (which is owned by the City of Nogales) for reuse as turf irrigation.

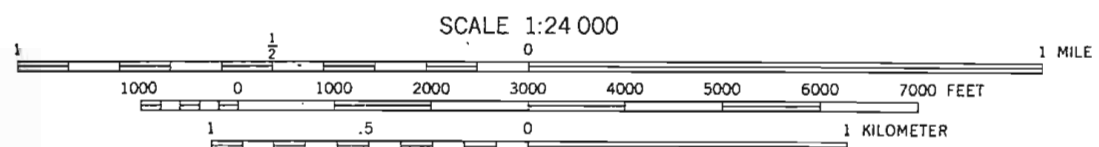
Both air stripping towers are 27 feet high and 3.4 feet in diameter. The towers contain 2-inch diameter polypropylene packing media that increase the contact surface area between air and water. By increasing the air to water surface contact area, volatilization of the VOCs increases. To further aid the transfer of VOCs to the vapor phase, two 10-horsepower blowers (B-1 and B-2) force air from the base of the columns counter-current to water flow at a rate of approximately 3,250 cubic feet per minute (cfm) each. The VOCs are discharged to the atmosphere with the air at the top of the columns.

All groundwater treatment activities occur in a concrete holding tank that provides secondary containment for impacted water. The holding tank is equipped with a level controlled sump that enunciates an alarm condition and shuts down all treatment system pumps (including the extraction well pump) in the event of a loss of treatment system integrity.



Key:

- Facility Boundary
- ⊕ Drinking Water Well



RCRA Part A Permit Application	Figure 1
UMI - Nogales, AZ	Site Map

<u>Symbol</u>	<u>Name</u>
CgE	Caralampi gravelly sandy loam, 10 to 40% slopes
CgF2	Caralampi gravelly sandy loam, 10 to 60% slopes, eroded
CoE	Chiricahua cobbly sandy loam, 10 to 45% slopes
CtB	Comoro soils, 0 to 5% slopes
GbB	Grabe-Comoro complex, 0 to 5% slopes
Ge	Grabe soils
Gu	Guest soils
LcF	Lampshire-Chiracahua association, steep
Pm	Pima soils
PoC	Pinaleno gravelly sandy loam, 0 to 10% slopes
SoB	Sonoita gravelly sandy loam, 1 to 8% slopes
Th	Torrifluvents and Haplustolls
WtF	White House-Hathaway association, steep

Source:

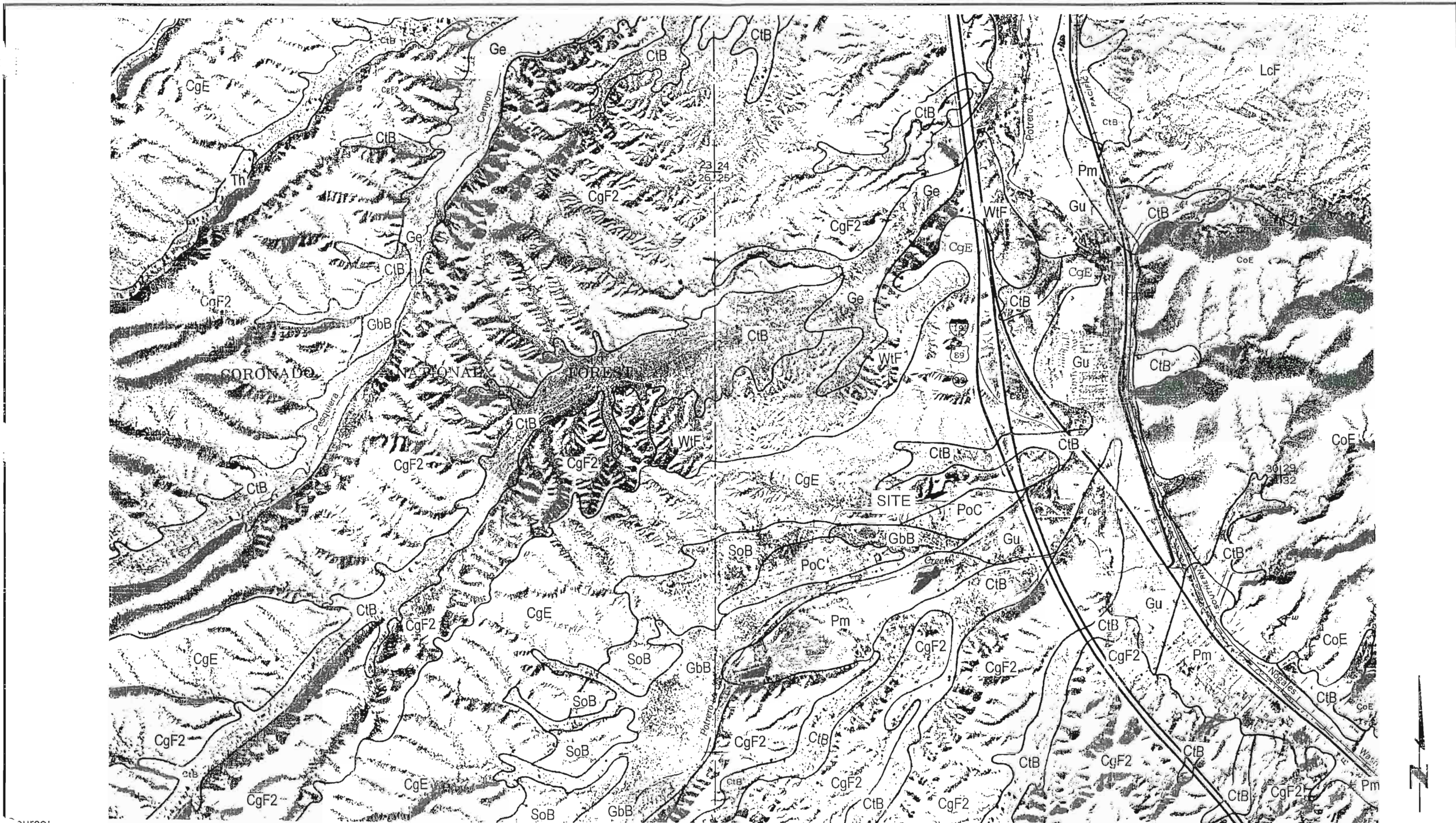
United States Department of Agriculture Soil Conservation Service and Forest Service in Cooperation with Arizona Agricultural Experiment Station, *Soil Survey of Santa Cruz and Parts of Cochise and Pima Counties, Arizona*. April, 1979

RCRA Part B Post Closure Permit Application

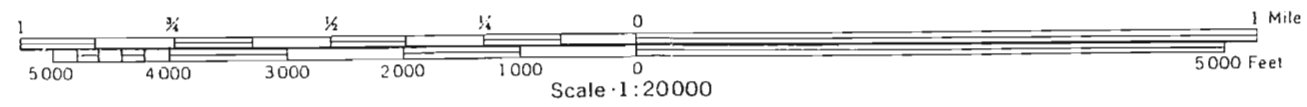
Figure 2a

UMI - Nogales, AZ

Soil Map Key



Source:
 United States Department of Agriculture Soil Conservation Service
 and Forest Service in Cooperation with Arizona Agricultural
 Experiment Station, *Soil Survey of Santa Cruz and Parts of Cochise
 and Pima Counties, Arizona*. April, 1979



RCRA Part B Post Closure Permit Application	Figure 2b
UMI - Nogales, AZ	Soil Map



NOTES

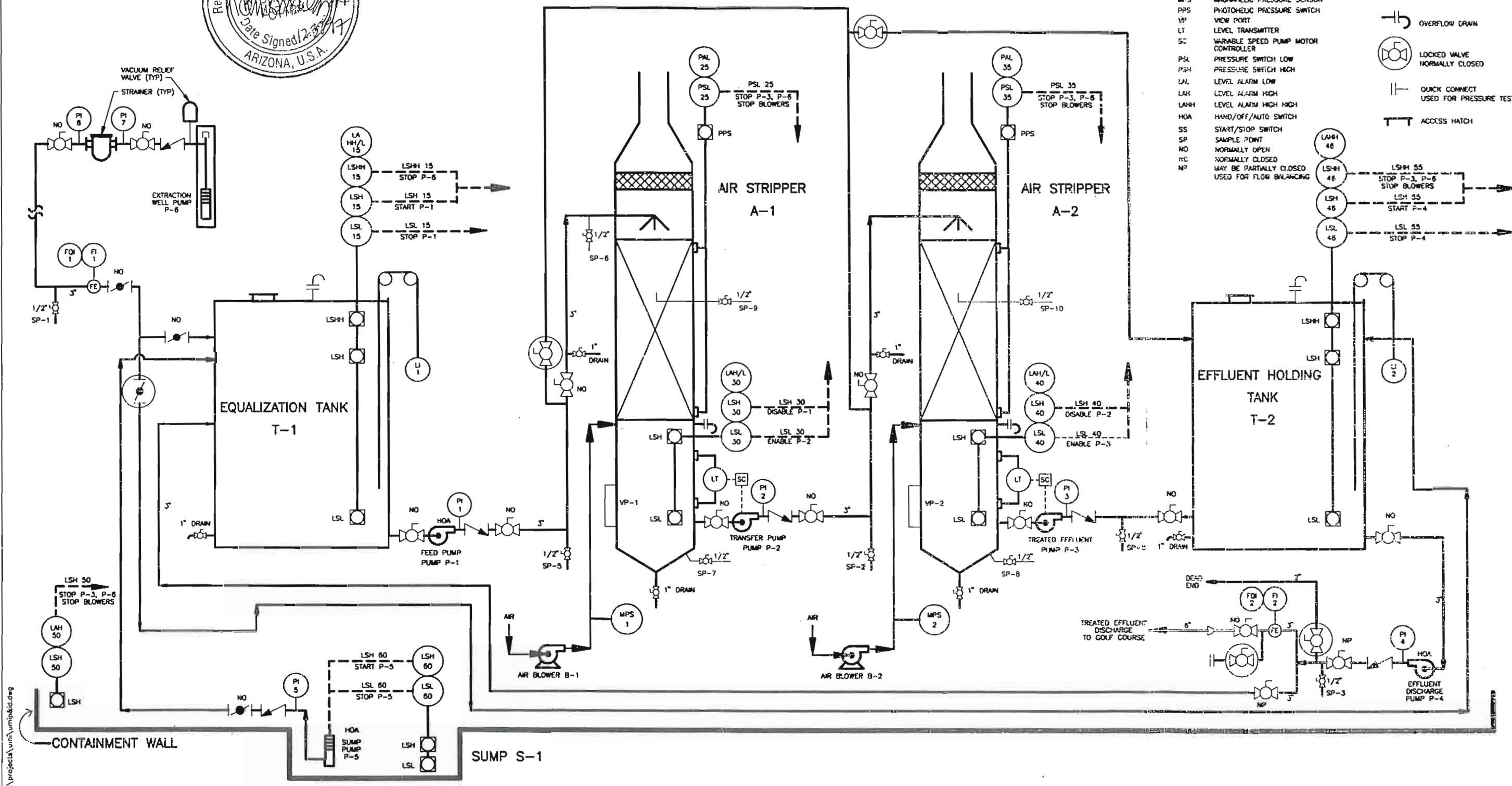
AIR STRIPPER 1 LEVEL CONTROLLER CONNECTED TO VARIABLE SPEED CONTROLLER AFD-2
 AIR STRIPPER 2 LEVEL CONTROLLER CONNECTED TO VARIABLE SPEED CONTROLLER AFD-3
 SP-4 LOCATED AT GOLF COURSE POND

ABBREVIATION LIST

- FI FLOW RATE INDICATOR
- FQI FLOW QUANTITY TOTALIZER
- LI LEVEL INDICATOR
- LSH HIGH LEVEL SWITCH
- LSHH HIGH HIGH LEVEL SWITCH
- LSL LOW LEVEL SWITCH
- PI PRESSURE INDICATOR (GAUGE)
- MPS MAGNETIC PRESSURE SENSOR
- PPS PHOTOELECTRIC PRESSURE SWITCH
- VP VIEW PORT
- LT LEVEL TRANSMITTER
- SC VARIABLE SPEED PUMP MOTOR CONTROLLER
- PSL PRESSURE SWITCH LOW
- PSH PRESSURE SWITCH HIGH
- LAL LEVEL ALARM LOW
- LAH LEVEL ALARM HIGH
- LAHH LEVEL ALARM HIGH HIGH
- HOA HAND/OFF/AUTO SWITCH
- SS START/STOP SWITCH
- SP SAMPLE POINT
- NO NORMALLY OPEN
- NC NORMALLY CLOSED
- MP MAY BE PARTIALLY CLOSED USED FOR FLOW BALANCING

SYMBOLS LIST

- BALL VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- FLOW METER
- OVERFLOW DRAIN
- LOCKED VALVE NORMALLY CLOSED
- QUICK CONNECT USED FOR PRESSURE TESTING
- ACCESS HATCH



REV	REVISION	DATE
1	FIELD INSPECTION (AS-BUILT)	1-27-94
2	(AS-BUILT)	7-02-97
3	MINOR CONTROL MODIFICATIONS	12-15-97

WARNING
 0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED	BSA
CHECKED	MCL
REVIEWED	
DATE	12-13-97

Woodward-Clyde
 Consulting Engineers, Geologists and Environmental Scientists
 OAKLAND, CALIFORNIA

UNITED MUSICAL INSTRUMENTS
 NOGALES, ARIZONA

AQUIFER REMEDIATION SYSTEM
P & I D

PROJECT **044-050P**
 DRAWING **Figure 3**
 SHEET **1** OF **1**



Key:

T04 Air Strippers

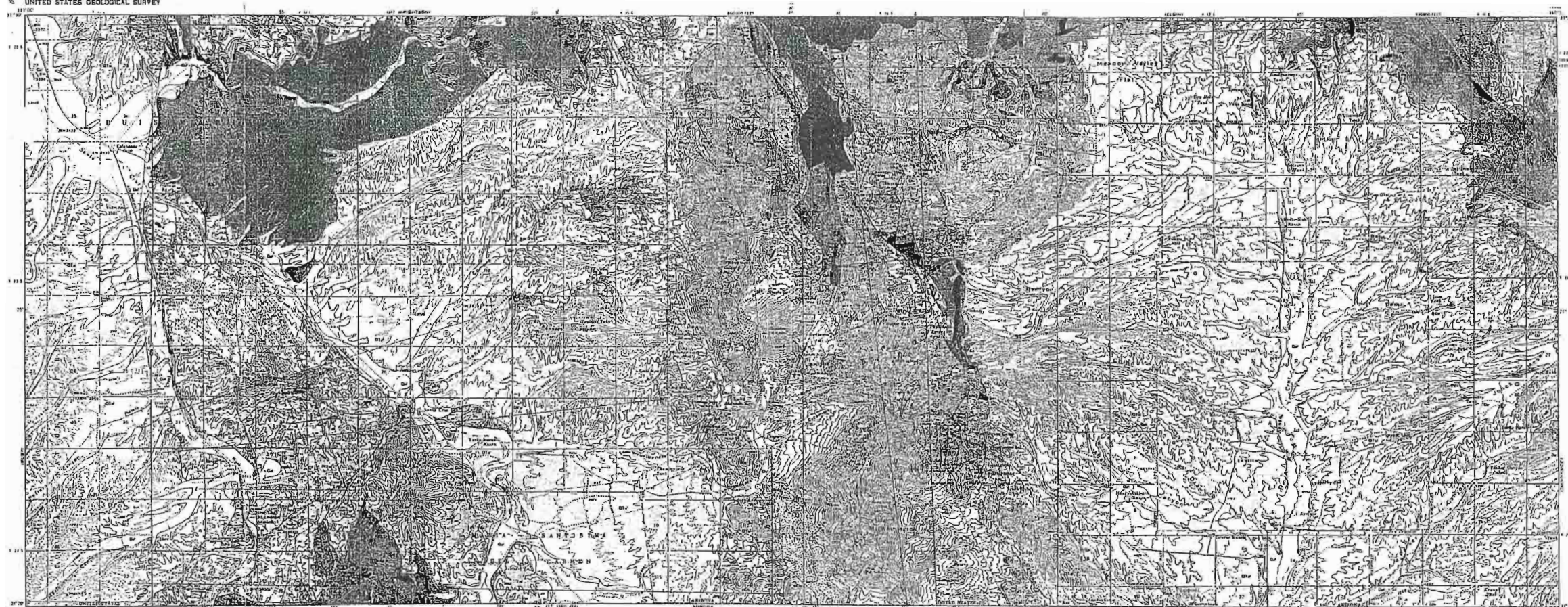
S04 Holding Tanks

RCRA Part A Permit Application

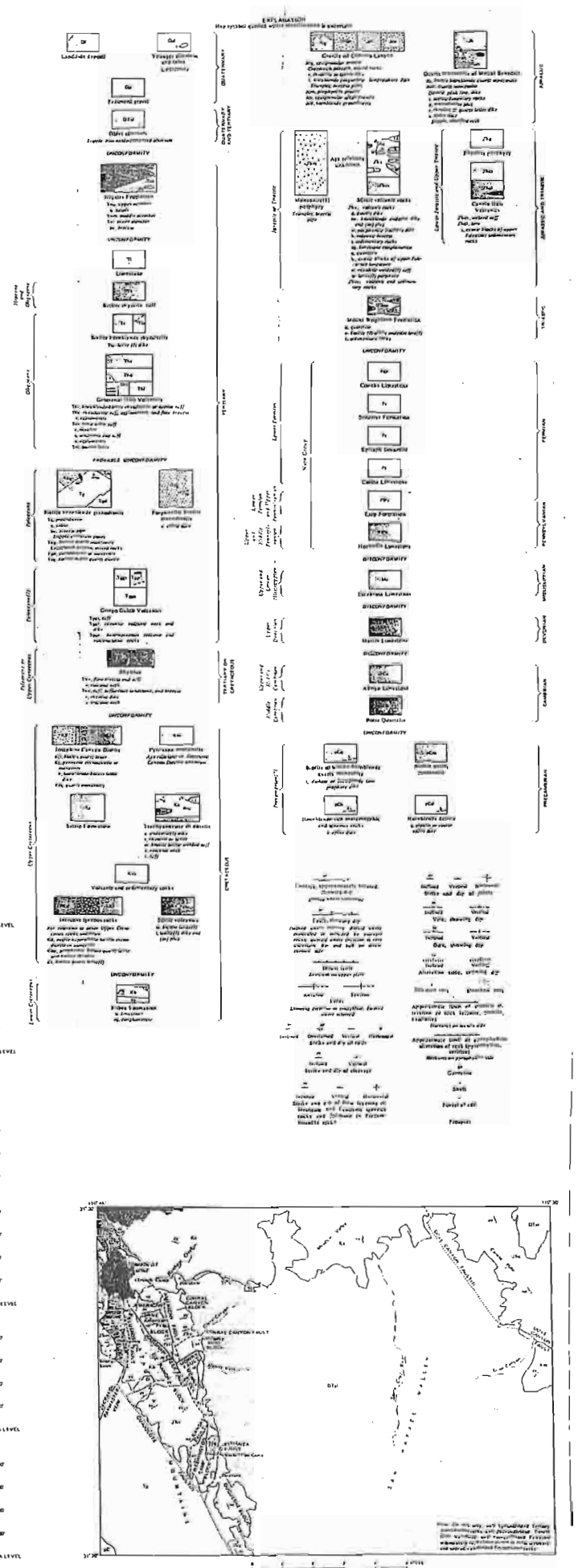
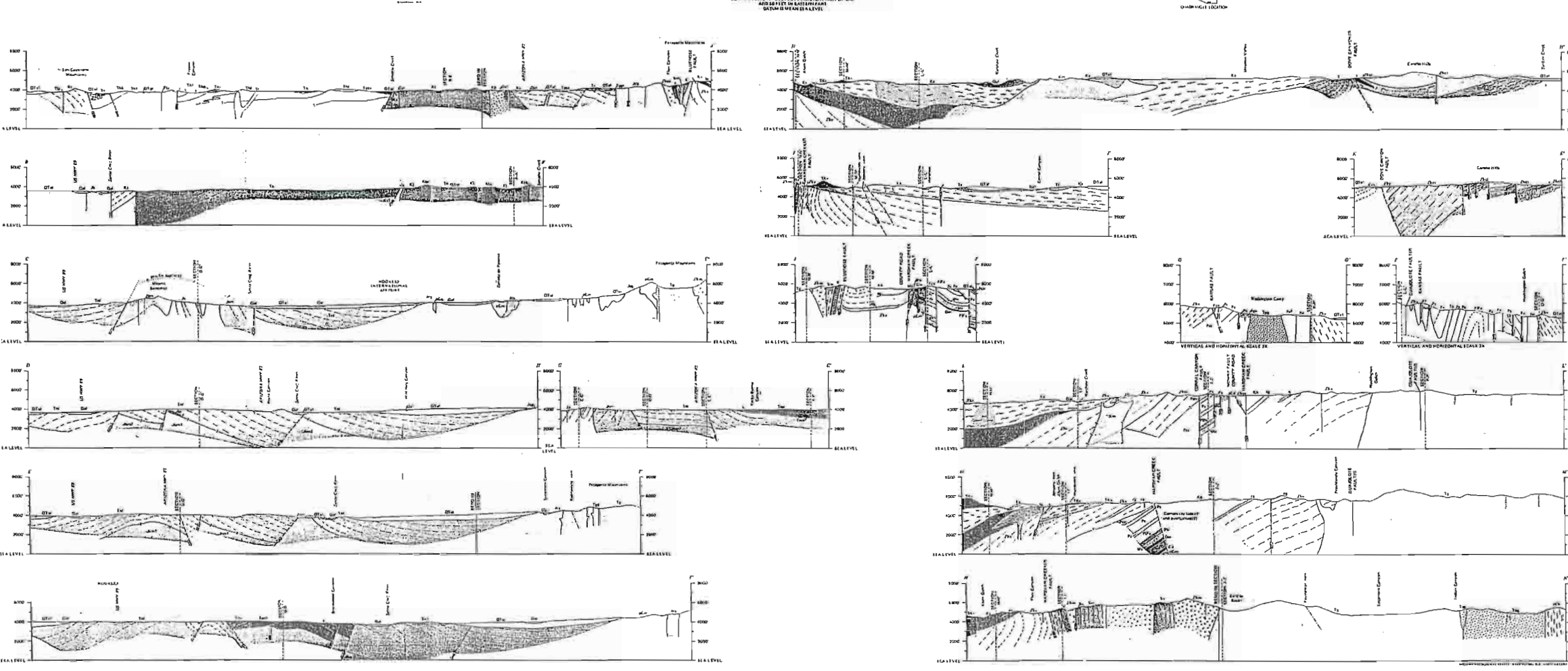
UMI - Nogales, AZ

Figure 4

Aerial Photograph (3/29/95)



UNITED STATES GEOLOGICAL SURVEY
 GEOLOGIC MAP AND SECTIONS OF THE NOGALES AND LOCHIEL QUADRANGLES, SANTA CRUZ COUNTY, ARIZONA
 SCALE 1:48,000
 SECTION INTERVALS SET AT INTERVALS PART OF MAP
 AND SECTIONS ON HORIZONTAL SCALE
 SECTION INTERVALS SET AT INTERVALS PART OF MAP
 AND SECTIONS ON HORIZONTAL SCALE



GEOLOGIC MAP AND SECTIONS OF THE NOGALES AND LOCHIEL QUADRANGLES, SANTA CRUZ COUNTY, ARIZONA
 By
 Frank S. Simons
 1971

FIGURE 5

Conn-Selmer, Inc., EPA ID: AZT 000 612 135

Part B Post-Closure Permit Application:

APPENDIX FIVE, Closure, and Post-Closure Plans

is included in **Volume III** of the

Arizona Hazardous Waste Management Act Draft Post-Closure Permit

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**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
EXTRACTION WELL EW-2**

	DATE OF SAMPLING
	08/97
Chloroethane	<2.0
1,1-DCE	1600
1,1-DCA	690
Cis/Trans-1,2-DCE	660
Chloroform	6.4
1,2-DCA	5
1,1,1-TCA	11
TCE	850
1,1,2-TCA	11
Methylene Chloride	<10
Acetone	NA
Vinyl Chloride	<2.0
PCE	3.5
Xylenes	NA
Trichlorofluoromethane	<2.0
Trans-1,3-Dichloropropene	<2.0
Bromodichloromethane	<2.0
Dibromochloromethane	<2.0
Toluene	NA
Benzene	NA

Notes:

Analytical results expressed in micrograms per liter ($\mu\text{g/l}$)

NA = Not analyzed

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL UMW-1**

	DATE OF SAMPLING										
	06/85	09/85	11/85	08/86	01/87	08/87	02/88	09/88	03/89	01/93	04/93
Chloroethane	*	*	*	*	*	*	*	*	*	<40	<2.0
1,1-DCE	7.2	14	17.9	24.7	23.47	11.2	21.6	19.1	32	23	26
1,1-DCA	*	*	*	0.4	0.5	0.3	0.4	1.5	1.7	<20	<1.0
Cis/Trans-1,2-DCE	*	*	4	4.3	5.07	3.4	4.5	4.1	7	<20	<1.0
Chloroform	*	*	*	*	2.25	*	*	*	0.5	<20	<1.0
1,2-DCA	*	*	*	*	*	*	*	*	*	<20	<1.0
1,1,1-TCA	*	*	1.53	0.8	0.65	0.4	0.7	*	1.8	<20	<2.0
TCE	14.9	19	29.6	41.1	32.67	16.4	32.8	24.6	38.4	40	39
1,1,2-TCA	*	*	*	*	*	*	*	*	*	<20	<1.0
Methylene Chloride	*	*	*	*	*	*	*	*	*	<100	<5.0
Acetone	*	*	*	*	*	*	*	*	NA	NA	NA
Vinyl Chloride	*	*	*	*	*	*	*	*	*	<70	<1.0
PCE	*	*	*	*	*	*	*	*	*	<20	<1.0
Xylenes	*	*	*	*	*	*	*	*	*	<50	<2.5
Trichlorofluoromethane	*	*	*	*	*	*	7.8	*	*	<20	<1.0
Trans-1,3-Dichloropropene	*	*	*	*	*	*	*	*	*	<20	<1.0
Bromodichloromethane	*	*	*	*	*	*	*	*	*	<20	<1.0
Dibromochloromethane	*	*	*	*	*	*	*	*	*	<20	<1.0
Toluene	*	*	*	*	*	*	*	0.3	*	<20	<1.0
Benzene	*	*	*	*	*	*	*	*	*	*	*

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

* = Not detected

() = Duplicate sample

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL UMW-1**

	DATE OF SAMPLING										
	07/93	10/93	02/94	04/94	09/94	12/94	03/95	05/95	09/95	12/95	03/96
Chloroethane	<2.0	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCE	23	7.0	21	14	20	18	18	19	19	23	24
1,1-DCA	<1.0	0	1.4	1.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4
Cis/Trans-1,2-DCE	<1.0	<1.0(<1.0)	9.6	7.9	5.7/<2.0	7	16	7.0	6.8	5.8	6.9
Chloroform	<1.0	<1.0(<1.0)	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-DCA	<1.0	<1.0(<1.0)	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-TCA	<2.0	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TCE	36	31	33	25	16	21	34	27	24	30	25
1,1,2-TCA	<1.0	<1.0(<1.0)	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<5.0	<5.0(<5.0)	<5.0	<5	<10	<10	<10	<10	<10	<10	<10
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	<1.0	<1.0(<1.0)	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PCE	<1.0	<1.0(<1.0)	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	<2.5	<2.5(<2.5)	<2.5	<2.5	NA	<2.0	<5.0	NA	NA	NA	<5.0
Trichlorofluoromethane	<1.0	<1.0(<1.0)	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trans-1,3-Dichloropropene	<1.0	<1.0(<1.0)	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	<1.0	<1.0(<1.0)	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	<1.0	<1.0(<1.0)	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1.0	<1.0(<1.0)	<1.0	<1.0	NA	NA	<2.0	NA	NA	NA	2.4
Benzene	*	*	<1.0	<1.0	NA	NA	<2.0	NA	NA	NA	<2.0

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

* = Not detected

() = Duplicate sample

APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL UMW-1

	DATE OF SAMPLING					
	06/96	09/96	11/96	01/97	06/97	08/97
Chloroethane	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
1,1-DCE	16	22	20	20	26(29)	15
1,1-DCA	2.5	3.2	3.0	2.7	4.7(4.9)	<2
Cis/Trans-1,2-DCE	6.3	7.2	7.1	7.1	8(8.3)	<2
Chloroform	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
1,2-DCA	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
TCE	15	19	17	22	17(19)	15
1,1,2-TCA	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
Methylene Chloride	<10	<10	<10	<2.0	<2.0(<2.0)	<10
Acetone	NA	NA	NA	NA	NA(NA)	NA
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
PCE	<2.0	<2.0	<2.0	<2.0	NA(NA)	<2
Xylenes	NA	NA	NA	<2.0	5.8(6.9)	NA
Trichlorofluoromethane	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
Trans-1,3-Dichloropropene	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
Bromodichloromethane	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
Dibromochloromethane	<2.0	<2.0	<2.0	<2.0	<0.5(<0.5)	<2
Toluene	NA	NA	NA	NA	5.0(5.6)	NA
Benzene	NA	NA	NA	NA	0.6(0.6)	NA

Notes:

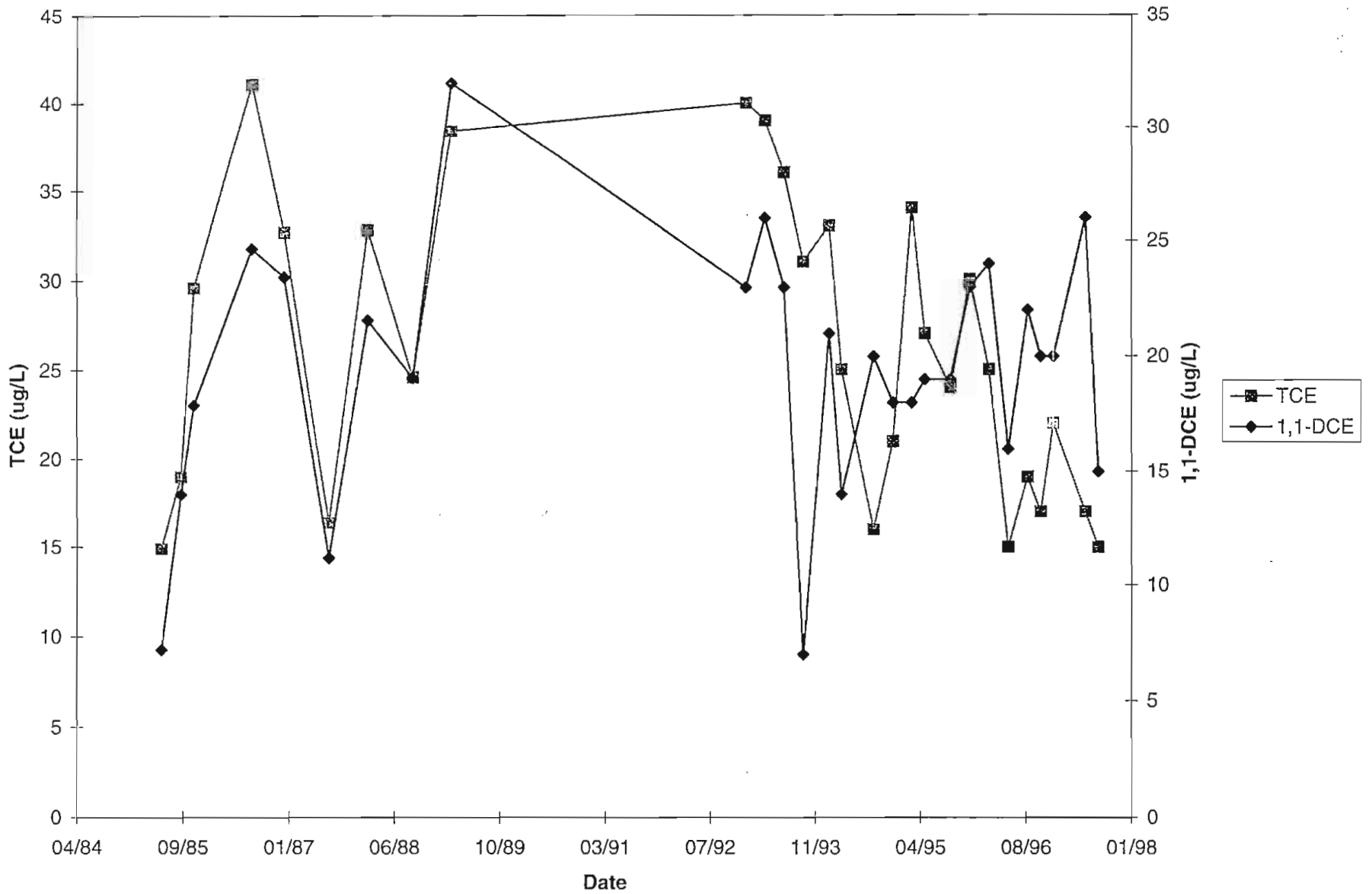
Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

* = Not detected

() = Duplicate sample

TIME SERIES PLOT FOR TCE AND 1,1-DCE: UMW-1
UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL UMW-2**

	DATE OF SAMPLING												
	02/94	04/94	09/94	12/94	03/95	05/95	09/95	12/95	03/96	06/96	09/96	11/96	01/97
Chloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<5.0	<2.0	<2.0	<2.0
1,1-DCE	35	26	14	51	240	180	53	93	73	48	39	20	23
1,1-DCA	<1.0	<2.0	<2.0	8.3	35	26	13	10	9.2	<2.0	4.0	2.1	<2.0
Cis/Trans-1,2-DCE	<1.0	--	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
Chloroform	<1.0	<2.0	<2.0	<2.0	2.7	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
1,2-DCA	<1.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	4.6	<2.0	<2.0	<2.0
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
TCE	69	<51	26	94	390	260	140	210	120	56	45	69	32
1,1,2-TCA	<1.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<5.0	<10	<10	<10	<10	<50	<20	<50	<20	<10	<10	<10.0	<10
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	<1.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
PCE	<1.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
Xylenes	<2.5	NA	NA	<2.0	<2.0	NA	NA	NA	NA	NA	NA	N/A	N/A
Trichlorofluoromethane	<1.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
Trans-1,3-Dichloropropene	<1.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	<1.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	<1.0	<2.0	<2.0	<2.0	<2.0	<10	<4.0	<10	<4.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1.0	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	NA	N/A	N/A
Benzene	<1.0	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	NA	N/A	N/A

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL UMW-2**

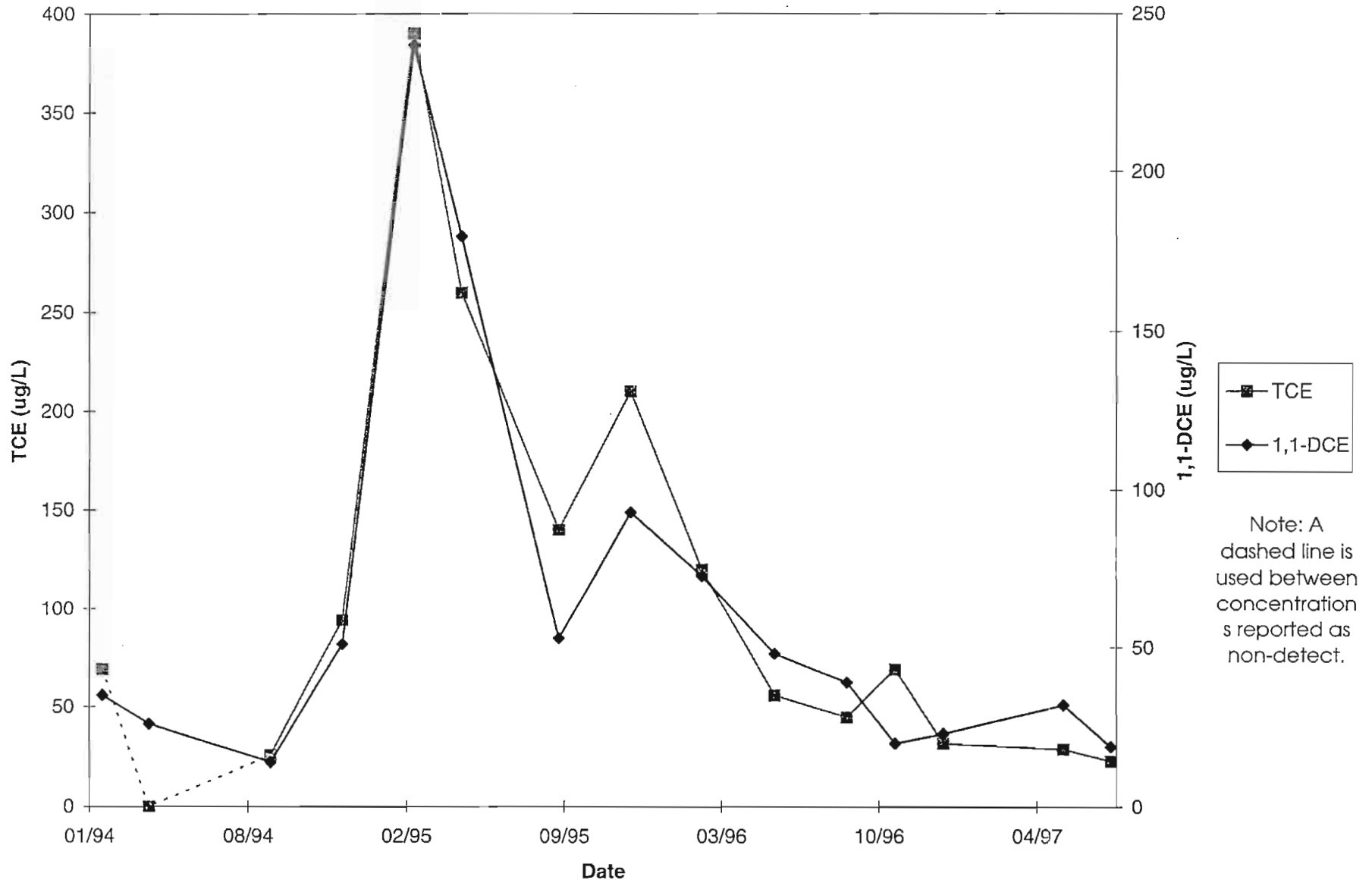
	DATE OF SAMPLING	
	06/97	08/97
Chloroethane	<0.5	<4.0
1,1-DCE	32	19
1,1-DCA	2.3	<4.0
Cis/Trans-1,2-DCE	<0.5	<4.0
Chloroform	<0.5	<4.0
1,2-DCA	<0.5	<4.0
1,1,1-TCA	<0.5	<4.0
TCE	29	23
1,1,2-TCA	<0.5	<4.0
Methylene Chloride	<2.0	<20
Acetone	NA	NA
Vinyl Chloride	<0.5	<4.0
PCE	NA	<4.0
Xylenes	0.5	NA
Trichlorofluoromethane	<0.5	<4.0
Trans-1,3-Dichloropropene	<0.5	<4.0
Bromodichloromethane	<0.5	<4.0
Dibromochloromethane	<0.5	<4.0
Toluene	0.6	NA
Benzene	<0.5	NA

Notes:

Analytical results expressed in micrograms per liter ($\mu\text{g/l}$)

NA = Not analyzed

TIME SERIES PLOT FOR TCE AND 1,1-DCE: UMW-2 UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL UMW-3**

	DATE OF SAMPLING								
	03/95	05/95	09/95	12/95	03/96	06/96	09/96	11/96	1/97
Chloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0
1,1-DCE	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Cis/Trans-1,2-DCE	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	<2.0	2.4	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-DCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TCE	13	13	14	15	10	11	14	9.1	12
1,1,2-TCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<10	<10	<10	<10	<10	<10	<10.0	<10.0	<10.0
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PCE	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	<5.0	NA	NA	NA	NA	NA	N/A	N/A	N/A
Trichlorofluoromethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trans-1,3-Dichloropropene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<2.0	NA	NA	NA	NA	NA	N/A	N/A	N/A
Benzene	<2.0	NA	NA	NA	NA	NA	N/A	N/A	N/A

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL UMW-3

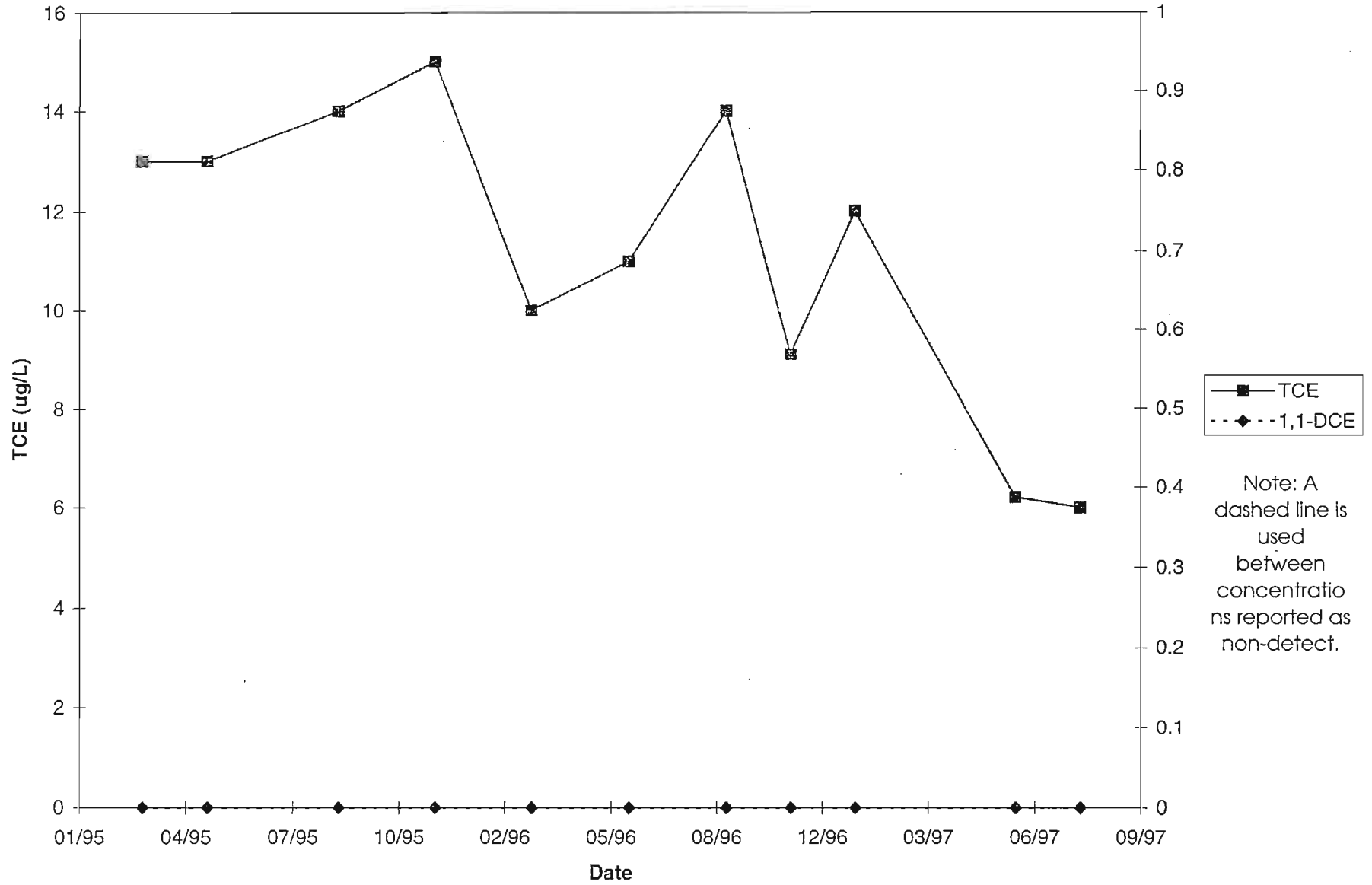
	DATE OF SAMPLING	
	06/97	08/97
Chloroethane	<2.0	<2.0
1,1-DCE	<2.0	<2.0
1,1-DCA	<2.0	<2.0
Cis/Trans-1,2-DCE	<2.0	<2.0
Chloroform	<2.0	<2.0
1,2-DCA	<2.0	<2.0
1,1,1-TCA	<2.0	<2.0
TCE	6.2	6
1,1,2-TCA	<2.0	<2.0
Methylene Chloride	<10.0	<10.0
Acetone	NA	NA
Vinyl Chloride	<2.0	<2.0
PCE	<2.0	<2.0
Xylenes	N/A	NA
Trichlorofluoromethane	<2.0	<2.0
Trans-1,3-Dichloropropene	<2.0	<2.0
Bromodichloromethane	<2.0	<2.0
Dibromochloromethane	<2.0	<2.0
Toluene	N/A	NA
Benzene	N/A	NA

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

TIME SERIES PLOT FOR TCE AND 1,1-DCE: UMW-3
UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL UMW-3D**

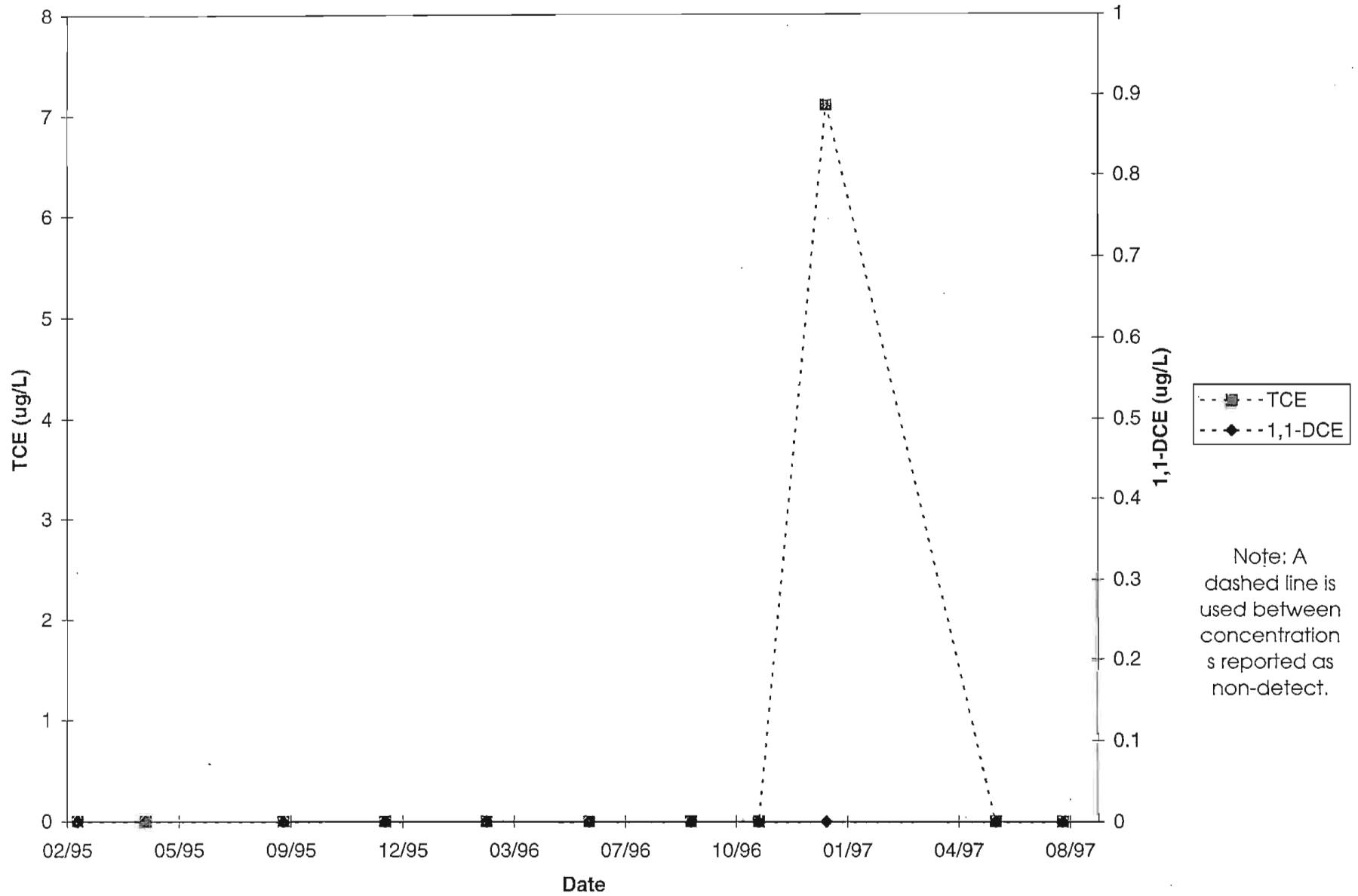
	DATE OF SAMPLING								
	03/95	05/95	09/95	12/95	03/96	06/96	09/96	11/96	01/97
Chloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0
1,1-DCE	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Cis/Trans-1,2-DCE	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-DCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TCE	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	7.1
1,1,2-TCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<10	<10	<10	<10	<10	<10	<10.0	<10.0	<2.0
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PCE	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	<5.0	NA	NA	NA	NA	NA	N/A	N/A	N/A
Trichlorofluoromethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trans-1,3-Dichloropropene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<2.0	NA	NA	NA	NA	NA	N/A	N/A	N/A
Benzene	<2.0	NA	NA	NA	NA	NA	N/A	N/A	N/A

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

TIME SERIES PLOT FOR TCE AND 1,1-DCE: UMW-3D
UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-1**

	DATE OF SAMPLING								
	04/85	06/85	09/85	11/85	08/86	01/87	08/87	02/88	09/88
Chloroethane	*	*	*	*	*	*	*	N/A	N/A
1,1-DCE	358	667	1100	901	1100	1039	816	N/A	N/A
1,1-DCA	78.3	69	110	141	190	239	185	N/A	N/A
Cis/Trans-1,2-DCE	824	791	880	933	560	583	357	N/A	N/A
Chloroform	*	*	6	1.8	*	256	81.3	N/A	N/A
1,2-DCA	*	*	*	*	0.8	*	*	N/A	N/A
1,1,1-TCA	718	115	170	152	172	138	89	N/A	N/A
TCE	183	312	410	256	230	169	147	N/A	N/A
1,1,2-TCA	*	*	9	10.7	7.1	*	*	N/A	N/A
Methylene Chloride	*	*	7	*	*	*	*	N/A	N/A
Acetone	*	*	7	*	*	*	*	N/A	N/A
Vinyl Chloride	*	*	7	*	*	*	10.4	N/A	N/A
PCE	*	*	7	*	*	*	0.5	N/A	N/A
Xylenes	*	*	*	*	*	*	*	N/A	N/A
Trichlorofluoromethane	*	*	7	*	*	*	0.8	N/A	N/A
Trans-1,3-Dichloropropene	*	*	*	*	*	*	*	N/A	N/A
Bromodichloromethane	*	*	*	*	*	*	*	N/A	N/A
Dibromochloromethane	*	*	7	*	*	*	10.6	N/A	N/A
Toluene	*	*	*	*	*	*	*	N/A	N/A
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

* = Not detected

N/A = Not accessible for sampling

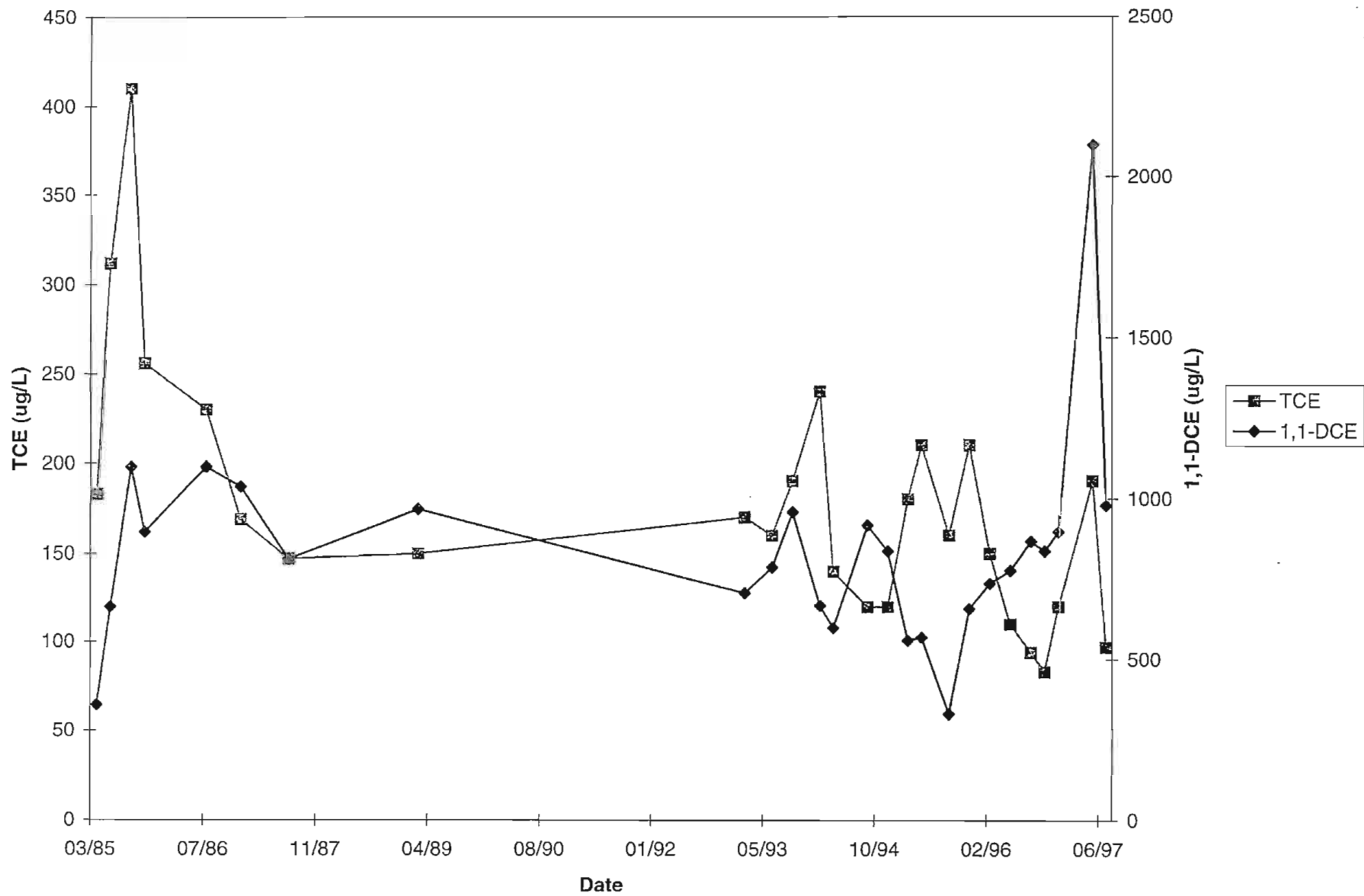
() = Duplicate sample

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-1**

	DATE OF SAMPLING								
	07/93	10/93	02/94	04/94	09/94	12/94	03/95	05/95	09/95
Chloroethane	<2.0	<2.0	<40	<20	<2.0	<20	<20	<20	<20
1,1-DCE	790	960	670	600	920	840	560	570	330
1,1-DCA	170	170	130	140	230	180	95	130	67
Cis/Trans-1,2-DCE	<1.0	<1.0	790	560	550	430	500	550	440
Chloroform	<1.0	<1.0	<20	<10	<20	<20	<20	<20	<20
1,2-DCA	<1.0	<1.0	<20	<10	<20	<20	<20	<20	<20
1,1,1-TCA	8.6	12	<40	<20	<20	<20	<20	<20	<20
TCE	160	190	240	140	120	120	180	210	160
1,1,2-TCA	5.6	6.7	<20	<10	<20	<20	<20	<20	<20
Methylene Chloride	<5.0	<5.0	<100	<50	<50	<20	<100	<100	<100
Acetone	NA	NA	NA	NA	NA	<100	NA	NA	NA
Vinyl Chloride	<1.0	<1.0	<20	<10	<20	<20	<20	<20	<20
PCE	<1.0	<1.0	<20	<10	<20	<20	<20	<20	<20
Xylenes	<2.5	<2.5	<50	<25	NA	<20	<50	NA	NA
Trichlorofluoromethane	<1.0	<1.0	<20	<10	<20	<20	<20	<20	<20
Trans-1,3-Dichloropropene	<1.0	<1.0	<20	<10	<20	<20	<20	<20	<20
Bromodichloromethane	<1.0	<1.0	<20	<10	<20	<20	<20	<20	<20
Dibromochloromethane	<1.0	<1.0	<20	<10	<20	<20	<20	<20	<20
Toluene	<1.0	<1.0	<20	<10	NA	NA	<20	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	<20	NA	NA

Notes:

TIME SERIES PLOT FOR TCE AND 1,1-DCE: DMW-1
UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-2**

	DATE OF SAMPLING								
	04/85	06/85	09/85	11/85	08/86	01/87	08/87	02/88	09/88
Chloroethane	*	*	39	30.4	N/A	*	22.4	NA	NA
1,1-DCE	10400	8440	8660	6540	N/A	6743	5740	NA	NA
1,1-DCA	6380	5450	8300	5170	N/A	4217	3780	NA	NA
Cis/Trans-1,2-DCE	352	210	195	226	N/A	219	66	NA	NA
Chloroform	*	*	11	12.3	N/A	42.17	52	NA	NA
1,2-DCA	*	*	35	44	N/A	*	45.5	NA	NA
1,1,1-TCA	3790	4000	9800	3110	N/A	2121	1290	NA	NA
TCE	86.8	164	120	130	N/A	141.6	72.9	NA	NA
1,1,2-TCA	*	*	30	43.2	N/A	14.32	34.4	NA	NA
Methylene Chloride	197	*	*	*	N/A	*	*	NA	NA
Acetone	*	*	14	*	N/A	*	*	NA	NA
Vinyl Chloride	*	*	*	*	N/A	*	2.7	NA	NA
PCE	*	*	*	*	N/A	*	4.5	NA	NA
Xylenes	*	*	*	*	*	*	*	*	*
Trichlorofluoromethane	*	*	*	*	N/A	*	*	NA	NA
Trans-1,3-Dichloropropene	*	*	*	*	N/A	*	*	NA	NA
Bromodichloromethane	*	*	*	*	N/A	*	*	NA	NA
Dibromochloromethane	*	*	*	*	N/A	*	*	NA	NA
Toluene	*	*	*	*	N/A	*	*	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

* = Not detected

N/A = Not accessible for sampling

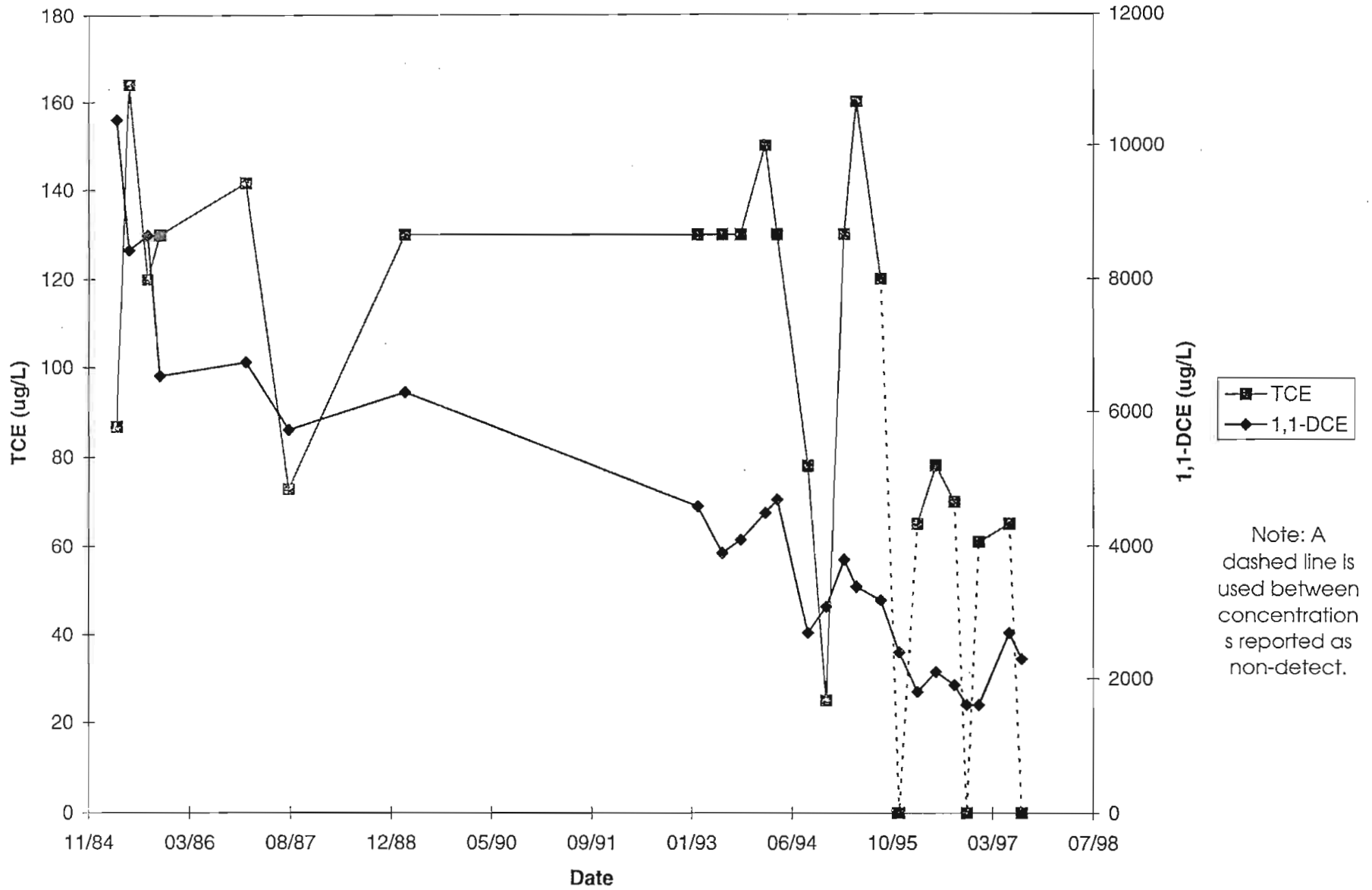
() = Duplicate sample

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-2**

	DATE OF SAMPLING								
	07/93	10/93	02/94	04/94	09/94	12/94	03/95	05/95	09/95
Chloroethane	<2.0	<2.0	<200	<200(<2.0)	<40	<20(<2.0)	<100	<100	<100
1,1-DCE	3900	4100	4500	4700(3700)	2700	3100(3100)	3800	3400	3200
1,1-DCA	2800	3100	3200	4100(2800)	2500	2500(2600)	2800	2700	2400
Cis/Trans-1,2-DCE	<1.0	<1.0	290	300(230)	220	230(210)	310	340	250
Chloroform	15	18	<100	<100(11)	<40	<20(<2.0)	<100	<250	<100
1,2-DCA	17	20	<100	<100(24)	<40	<20(17)	<100	<250	<100
1,1,1-TCA	54	52	<200	<200(48)	<40	<20(23)	<100	<250	<100
TCE	130	130	150	130(120)	78	25(28)	130	160	120
1,1,2-TCA	25	31	<100	<100(29)	<40	95(98)	<100	<250	<100
Methylene Chloride	<5.0	<5.0	<100	<500	<200	31(43)	<500	<500	<500
Acetone	NA	NA	NA	NA	NA	NA	Na	NA	NA
Vinyl Chloride	<1.0	<1.0	<100	<100(<1.0)	<40	<20(<2.0)	<100	<100	<100
PCE	1.6	1.4	<100	<100(2.1)	<40	<20(<2.0)	<100	<250	<100
Xylenes	<2.5	<2.5	<250	<250(2.5)	NA	<20(<2.0)	<250	NA	NA
Trichlorofluoromethane	<1.0	<1.0	<100	<100(<1.0)	<40	<20(<2.0)	<100	<100	<100
Trans-1,3-Dichloropropene	<1.0	<1.0	<100	<100(<1.0)	<40	<20(<2.0)	<100	<250	<100
Bromodichloromethane	<1.0	<1.0	<100	<100(<1.0)	<40	<20(<2.0)	<100	<250	<100
Dibromochloromethane	<1.0	<1.0	<100	<100(<1.0)	<40	<20(<2.0)	<100	<250	<100
Toluene	<1.0	<1.0	<100	<100(<1.0)	NA	NA	<100	NA	NA
Benzene	NA	NA	NA	NA	NA	NA	<100	NA	NA

Notes:

TIME SERIES PLOT FOR TCE AND 1,1-DCE: DMW-2
 UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-3**

	DATE OF SAMPLING								
	04/85	06/85	09/85	11/85	08/86	01/87	08/87	02/88	09/88
Chloroethane	*	*	*	*	N/A	*	*	N/A	N/A
1,1-DCE	*	*	*	*	N/A	*	*	N/A	N/A
1,1-DCA	*	*	*	*	N/A	*	*	N/A	N/A
Cis/Trans-1,2-DCE	91	75	77	94	N/A	143	59.4	N/A	N/A
Chloroform	*	*	*	2.4	N/A	5.03	*	N/A	N/A
1,2-DCA	*	*	*	*	N/A	*	*	N/A	N/A
1,1,1-TCA	*	*	*	*	N/A	*	0.7	N/A	N/A
TCE	129	120	110	161	N/A	163.9	39.6	N/A	N/A
1,1,2-TCA	*	*	*	*	N/A	*	*	N/A	N/A
Methylene Chloride	*	*	*	*	N/A	*	*	N/A	N/A
Acetone	*	*	*	*	N/A	*	*	N/A	N/A
Vinyl Chloride	*	*	*	*	N/A	*	*	N/A	N/A
PCE	*	*	*	*	N/A	*	*	N/A	N/A
Xylenes	*	*	*	*	*	*	*	N/A	N/A
Trichlorofluoromethane	*	*	*	*	N/A	*	*	N/A	N/A
Trans-1,3-Dichloropropene	*	*	*	*	N/A	*	*	N/A	N/A
Bromodichloromethane	*	*	*	*	N/A	*	*	N/A	N/A
Dibromochloromethane	*	*	*	*	N/A	*	*	N/A	N/A
Toluene	*	*	*	*	N/A	*	*	N/A	N/A
Benzene	*	*	*	*	*	*	*	*	*

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

* = Not detected

N/A = Not accessible for sampling

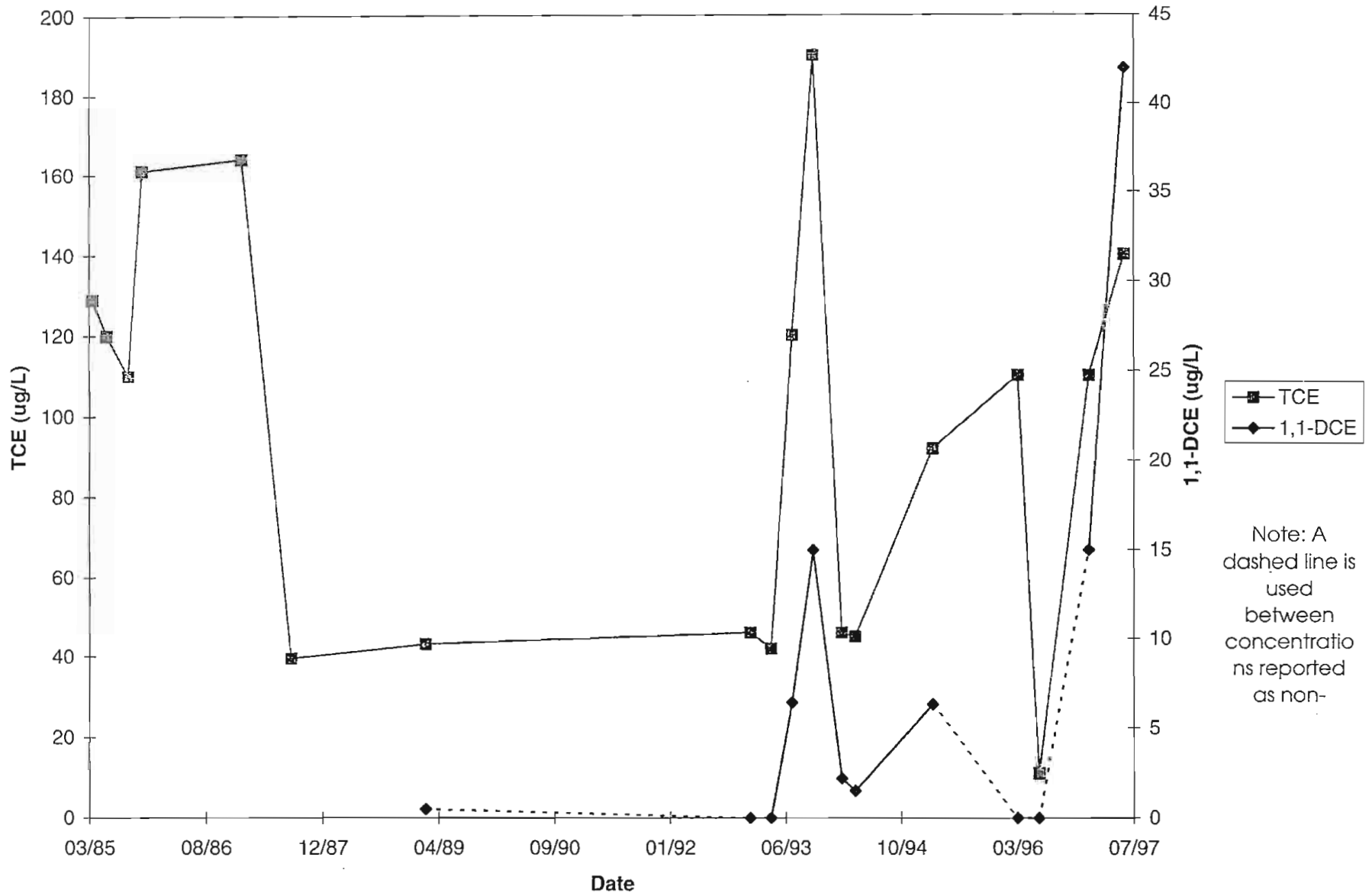
() = Duplicate sample

-- = Indicates monitoring well was not sampled during quarterly sampling event

APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-3

	DATE OF SAMPLING								
	07/93	10/93	02/94	04/94	09/94	12/94	03/95	05/95	09/95
Chloroethane	<2.0	<2.0	<2.0	<2.0	--	--	<2.0	--	--
1,1-DCE	6.4	15	2.2	1.5	--	--	6.3	--	--
1,1-DCA	2.3	6.2	<1.0	<1.0	--	--	3.1	--	--
Cis/Trans-1,2-DCE	<1.0	<1.0	89	72.0/1.2	--	--	250	--	--
Chloroform	5.4	<1.0	1.3	1.0	--	--	4.5	--	--
1,2-DCA	<1.0	<1.0	<1.0	<1.0	--	--	<2.0	--	--
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	--	--	<2.0	--	--
TCE	120	190	46	45	--	--	92	--	--
1,1,2-TCA	<1.0	<1.0	<1.0	<1.0	--	--	<2.0	--	--
Methylene Chloride	<5.0	<5.0	<5.0	<5.0	--	--	<10	--	--
Acetone	NA	NA	NA	NA	--	--	NA	--	--
Vinyl Chloride	<1.0	<1.0	<1.0	<1.0	--	--	<2.0	--	--
PCE	<1.0	<1.0	<1.0	<1.0	--	--	<2.0	--	--
Xylenes	<2.5	<2.5	<2.5	<2.5	--	--	<5.0	--	--
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	--	--	<2.0	--	--
Trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0	--	--	<2.0	--	--
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	--	--	<2.0	--	--
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	--	--	<2.0	--	--
Toluene	<1.0	<1.0	<1.0	<1.0	--	--	<2.0	--	--
Benzene	--	--	--	--	--	--	<2.0	--	--

TIME SERIES PLOT FOR TCE AND 1,1-DCE: DMW-3
 UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-4**

	DATE OF SAMPLING								
	09/86	01/87	08/87	02/88	09/88	04/89	01/93	04/93	07/93
Chloroethane	*	*	*	*	*	*	<4.0	<2.0	13
1,1-DCE	*	*	*	*	*	*	<2.0	<1.0	<1.0
1,1-DCA	*	*	*	*	*	*	<2.0	<1.0	<1.0
Cis/Trans-1,2-DCE	*	*	*	*	*	*	<2.0	<1.0	<1.0
Chloroform	*	*	*	*	*	*	<2.0	<1.0	<1.0
1,2-DCA	*	*	*	*	*	*	<2.0	<1.0	<1.0
1,1,1-TCA	0.7	*	*	0.7	*	*	<2.0	<1.0	<2.0
TCE	*	*	*	*	*	*	<2.0	<2.0	<1.0
1,1,2-TCA	*	*	*	*	*	*	<2.0	<1.0	<1.0
Methylene Chloride	*	*	*	*	*	*	<10	<5.0	<5.0
Acetone	*	*	*	*	*	NA	NA	NA	NA
Vinyl Chloride	*	*	*	*	*	*	<7.0	<1.0	<1.0
PCE	*	*	*	*	*	*	<2.0	<1.0	<1.0
Xylenes	*	*	*	*	*	*	<5.0	<2.5	<2.5
Trichlorofluoromethane	*	*	1.5	6.5	*	*	<2.0	<1.0	<1.0
Trans-1,3-Dichloropropene	*	*	*	*	*	*	<2.0	<1.0	<1.0
Bromodichloromethane	*	*	*	*	*	*	<2.0	<1.0	<1.0
Dibromochloromethane	*	*	*	*	*	*	<2.0	<1.0	<1.0
Toluene	*	*	*	*	*	*	*	<1.0	<1.0
Chloromethane	*	*	*	*	*	*	<7.0	<5.0	210
Benzene	*	*	*	*	*	*	*	*	*

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

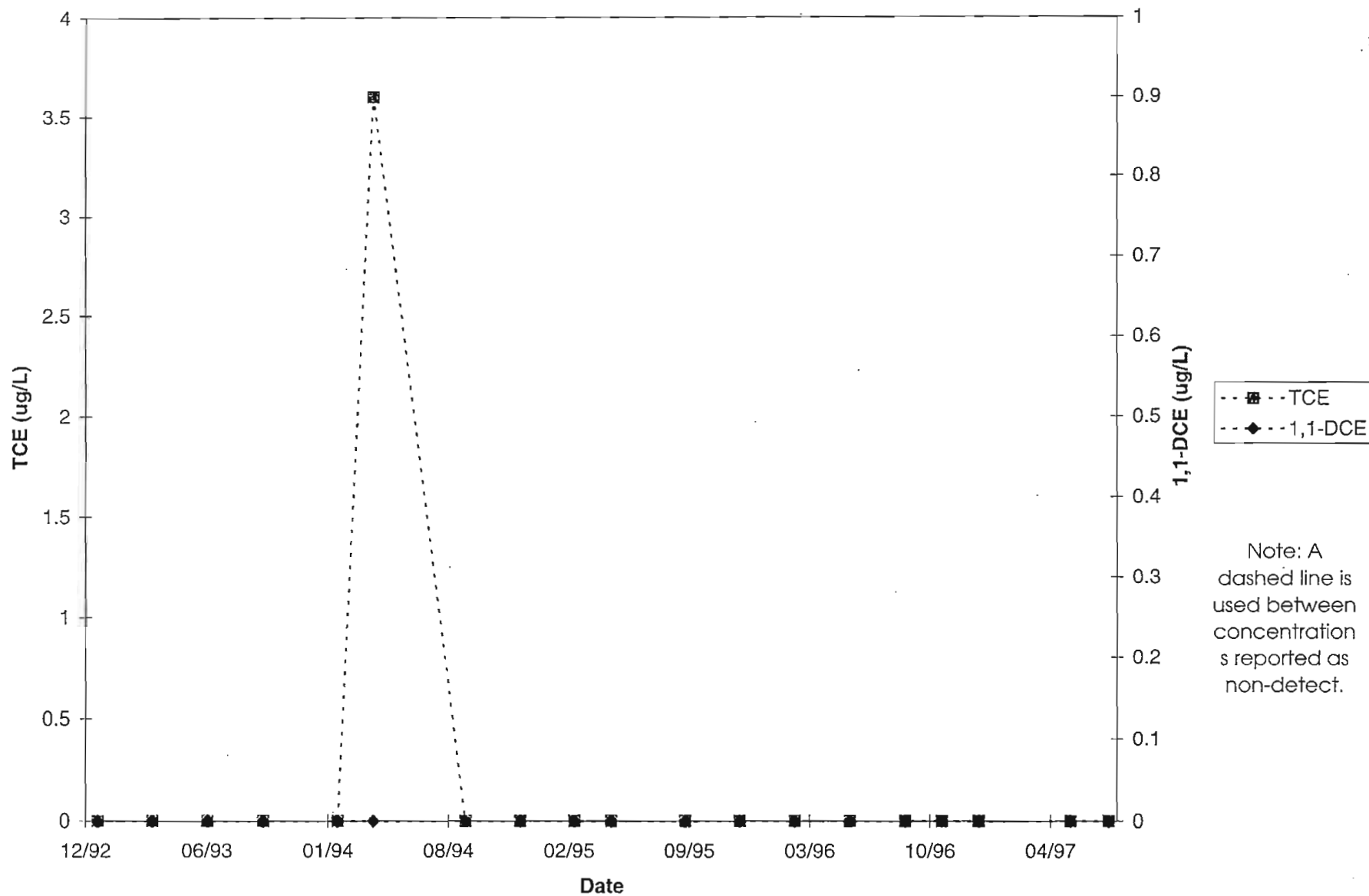
* = Not detected

() = Duplicate sample

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-4**

	DATE OF SAMPLING								
	09/94	12/94	03/95	05/95	09/95	12/95	03/96	06/96	09/96
Chloroethane	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCE	2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCA	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Cis/Trans-1,2-DCE	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-DCA	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-TCA	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TCE	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-TCA	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<10(<10)	<2.0	<10	<10	<10	<10	<10	<10	<10
Acetone	NA	<2.0	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PCE	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	NA	<2.0	<5.0	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trans-1,3-Dichloropropene	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	<2.0(<2.0)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	NA	NA	<2.0	NA	NA	NA	NA	NA	NA
Chloromethane	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	NA	NA	<2.0	NA	NA	NA	NA	NA	NA

TIME SERIES PLOT FOR TCE AND 1,1-DCE: DMW-4 UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-5**

	DATE OF SAMPLING								
	12/86	01/87	08/87	02/88	09/88	04/89	01/93	04/93	07/93
Chloroethane	*	*	*	*	*	*	<4.0	<2.0	<2.0
1,1-DCE	5.2	6.8	61.5	16	*	16	13(15)	13	15
1,1-DCA	21	18.4	50.5	36.3	20	43	30(29)	29	30
Cis/Trans-1,2-DCE	75.2	74.4	89.3	34.1	42	100	<2.0	<1.0	<1.0
Chloroform	*	39.18	*	*	*	*	<2.0	2.8	<1.0
1,2-DCA	*	*	*	*	*	*	<2.0	<1.0	<1.0
1,1,1-TCA	6.2	2.24	11	2.2	*	3	<2.0	<2.0	<2.0
TCE	22	26.04	24.6	34.1	9	35	36(34)	33	39
1,1,2-TCA	*	0.55	*	*	*	*	<2.0	<1.0	1.2
Methylene Chloride	*	*	*	*	*	*	<10	<5.0	<5.0
Acetone	*	*	*	*	*	NA	NA	NA	NA
Vinyl Chloride	*	*	*	*	*	*	<2.0	<1.0	<1.0
PCE	*	*	*	*	*	*	<2.0	<1.0	<1.0
Xylenes	*	*	*	*	*	*	<5.0	<5.0	<2.5
Trichlorofluoromethane	*	*	5.4	6.3	*	*	<2.0	<1.0	<1.0
Trans-1,3-Dichloropropene	*	*	*	*	*	*	<2.0	<1.0	<1.0
Bromodichloromethane	*	*	*	*	*	*	<2.0	<1.0	<1.0
Dibromochloromethane	*	*	*	*	*	*	<2.0	<1.0	<1.0
Toluene	*	*	*	*	*	*	<2.0	<1.0	<1.0
Benzene	*	*	*	*	*	*	*	*	*

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

* = Not detected

() = Duplicate sample

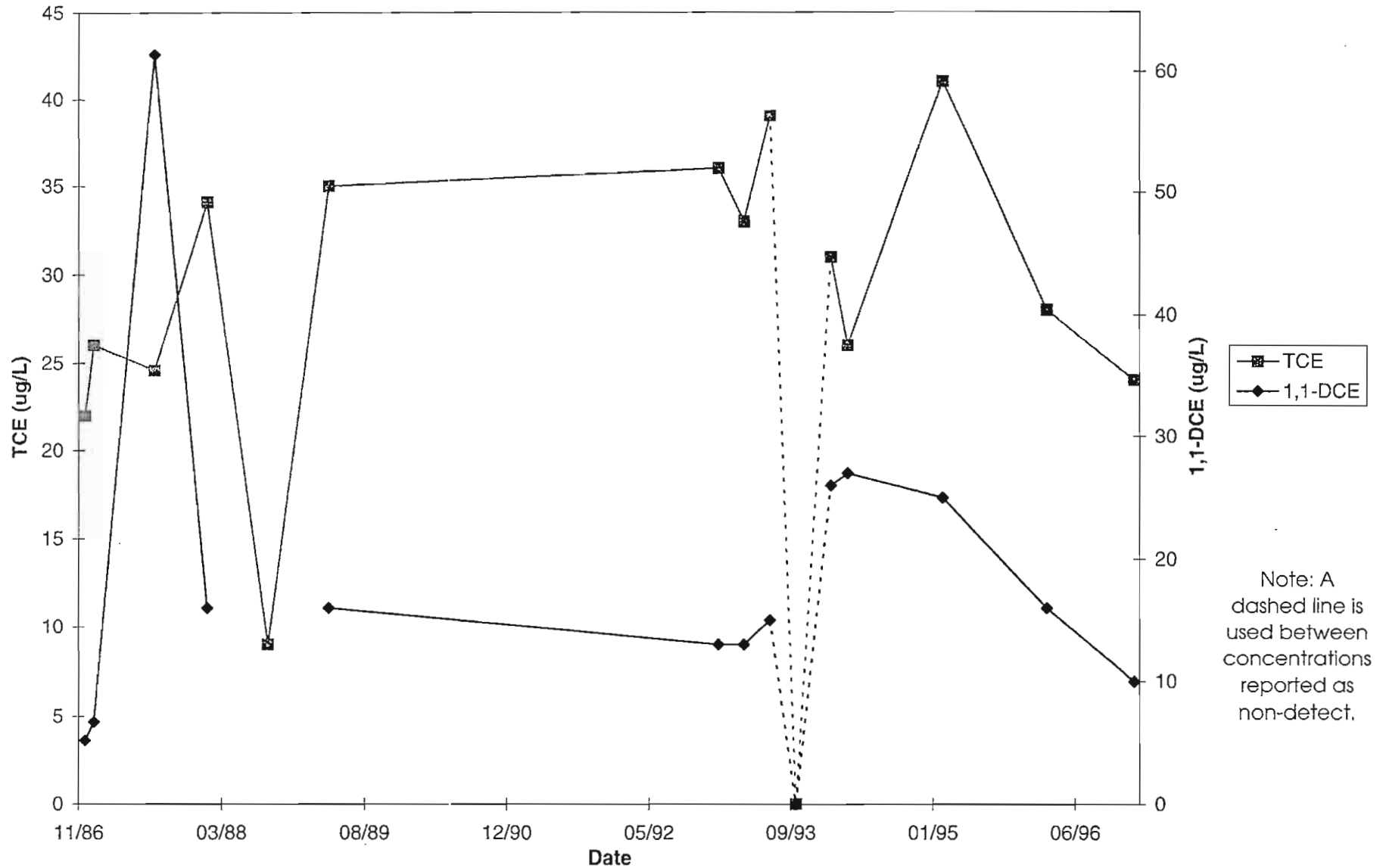
-- = Indicates monitoring well was not sampled during quarterly sampling event

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-5**

	DATE OF SAMPLING								
	09/94	12/94	03/95	05/95	09/95	12/95	03/96	06/96	09/96
Chloroethane	--	--	<2.0	--	--	--	<2.0	--	--
1,1-DCE	--	--	25	--	--	--	16	--	--
1,1-DCA	--	--	37	--	--	--	23	--	--
Cis/Trans-1,2-DCE	--	--	110	--	--	--	98	--	--
Chloroform	--	--	2.7	--	--	--	<2.0	--	--
1,2-DCA	--	--	<2.0	--	--	--	<2.0	--	--
1,1,1-TCA	--	--	<2.0	--	--	--	<2.0	--	--
TCE	--	--	41	--	--	--	28	--	--
1,1,2-TCA	--	--	<2.0	--	--	--	<2.0	--	--
Methylene Chloride	--	--	<10	--	--	--	<10	--	--
Acetone	--	--	NA	--	--	--	NA	--	--
Vinyl Chloride	--	--	<2.0	--	--	--	<2.0	--	--
PCE	--	--	<2.0	--	--	--	<2.0	--	--
Xylenes	--	--	<5.0	--	--	--	<5.0	--	--
Trichlorofluoromethane	--	--	<2.0	--	--	--	<2.0	--	--
Trans-1,3-Dichloropropene	--	--	<2.0	--	--	--	<2.0	--	--
Bromodichloromethane	--	--	<2.0	--	--	--	<2.0	--	--
Dibromochloromethane	--	--	<2.0	--	--	--	<2.0	--	--
Toluene	--	--	<2.0	--	--	--	<2.0	--	--
Benzene	--	--	<2.0	--	--	--	<2.0	--	--

Notes:

TIME SERIES PLOT FOR TCE AND 1,1-DCE: DMW-5
 UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-5D**

	DATE OF SAMPLING									
	04/87	08/87	02/88	09/88	03/89	01/93	04/93	07/93	10/93	
Chloroethane	*	*	*	*	*	<4.0	<2.0	<2.0	<2.0	
1,1-DCE	*	0.3	*	*	*	<2.0	<1.0	3	10	
1,1-DCA	*	*	*	*	*	<2.0	<1.0	1.7	16	
Cis/Trans-1,2-DCE	*	0.2	*	0.2	0.4	<2.0	<1.0	<1.0	<1.0	
Chloroform	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
1,2-DCA	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
1,1,1-TCA	1.6	1.2	2.0	0.5	*	<2.0	<2.0	<2.0	<2.0	
TCE	*	0.6	0.5	10.5	0.8	<2.0	4.4	22	42	
1,1,2-TCA	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Methylene Chloride	*	*	*	*	*	<10	<5.0	<5.0	<5.0	
Acetone	*	*	*	*	NA	NA	NA	NA	NA	
Vinyl Chloride	*	*	*	*	*	<2.0	NA	NA	<1.0	
PCE	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Xylenes	*	*	*	*	*	<5.0	<2.5	<2.5	<2.5	
Trichlorofluoromethane	*	1.1	6.4	*	*	<2.0	<1.0	<1.0	<1.0	
Trans-1,3-Dichloropropene	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Bromodichloromethane	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Dibromochloromethane	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Toluene	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Benzene	*	*	*	*	*	*	*	*	*	

Notes:

Analytical results expressed in micrograms per liter ($\mu\text{g/l}$)

NA = Not analyzed

* = Not detected

() = Duplicate sample

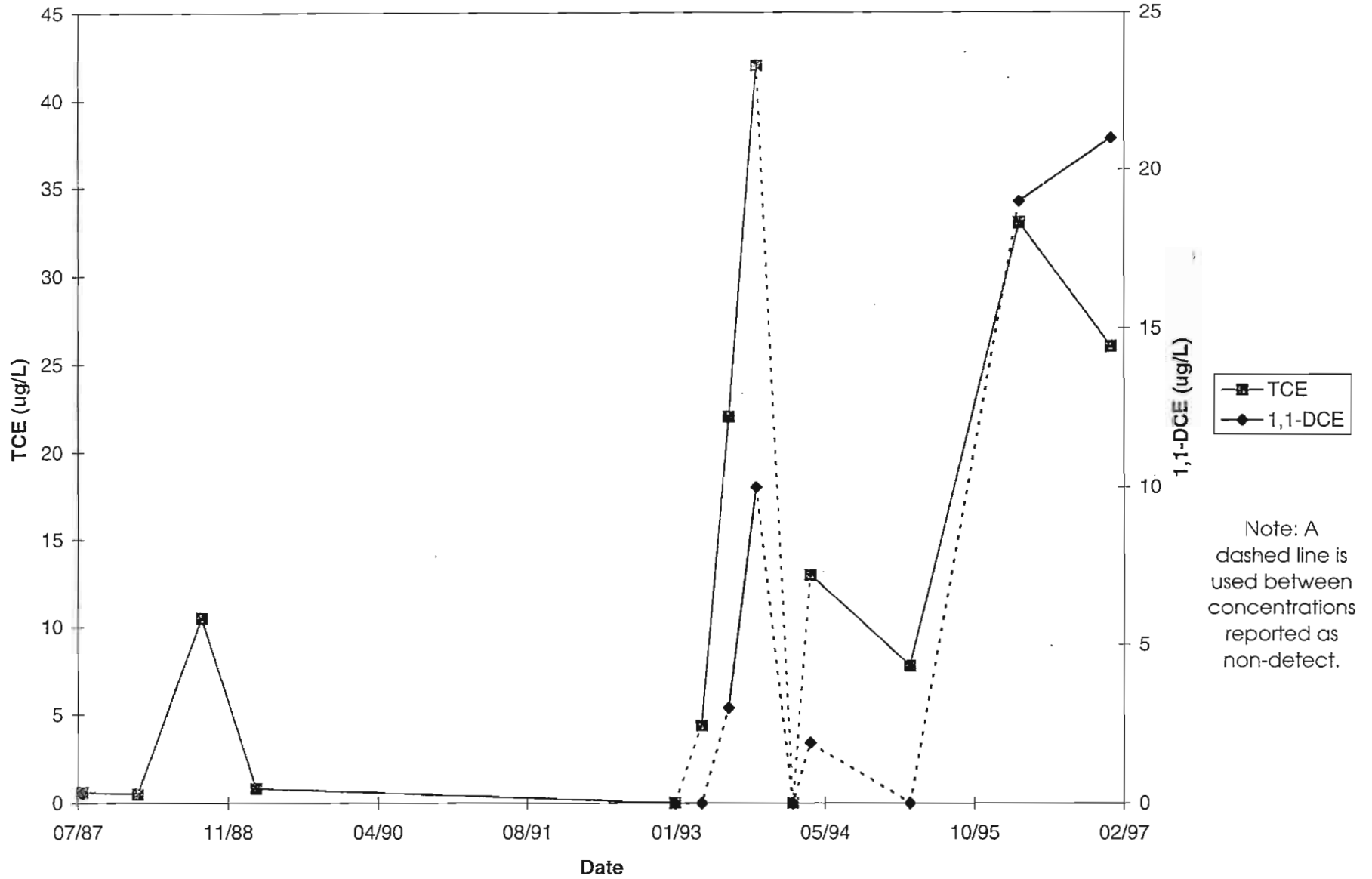
-- = Indicates monitoring well was not sampled during quarterly sampling event

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-5D**

	DATE OF SAMPLING								
	09/94	12/94	03/95	05/95	09/95	12/95	03/96	06/96	09/96
Chloroethane	--	--	<2.0	--	--	--	<2.0	--	--
1,1-DCE	--	--	<2.0	--	--	--	19	--	--
1,1-DCA	--	--	<2.0	--	--	--	23	--	--
Cis/Trans-1,2-DCE	--	--	<2.0	--	--	--	87	--	--
Chloroform	--	--	<2.0	--	--	--	<2.0	--	--
1,2-DCA	--	--	<2.0	--	--	--	<2.0	--	--
1,1,1-TCA	--	--	<2.0	--	--	--	<2.0	--	--
TCE	--	--	7.8	--	--	--	33	--	--
1,1,2-TCA	--	--	<2.0	--	--	--	<2.0	--	--
Methylene Chloride	--	--	<10	--	--	--	<10	--	--
Acetone	--	--	NA	--	--	--	NA	--	--
Vinyl Chloride	--	--	<2.0	--	--	--	<2.0	--	--
PCE	--	--	<2.0	--	--	--	<2.0	--	--
Xylenes	--	--	<5.0	--	--	--	<5.0	--	--
Trichlorofluoromethane	--	--	<2.0	--	--	--	<2.0	--	--
Trans-1,3-Dichloropropene	--	--	<2.0	--	--	--	<2.0	--	--
Bromodichloromethane	--	--	<2.0	--	--	--	<2.0	--	--
Dibromochloromethane	--	--	<2.0	--	--	--	<2.0	--	--
Toluene	--	--	<2.0	--	--	--	<2.0	--	--
Benzene	*	*	<2.0	--	--	--	<2.0	--	--

Notes:

TIME SERIES PLOT FOR TCE AND 1,1-DCE: DMW-5D
UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-6**

	DATE OF SAMPLING									
	04/87	08/87	02/88	09/88	03/89	01/93	04/93	07/93	10/93	
Chloroethane	*	*	*	*	*	<4.0	<2.0	<2.0	<2.0	
1,1-DCE	0.5	0.6	*	0.9	4.1	5.2	2.9	3.0	<1.0	
1,1-DCA	*	0.3	*	0.9	2.1	11	6.0	3.0	1.2	
Cis/Trans-1,2-DCE	63.5	51.7	117	78.5	120	<2.0	<1.0	1.1	<1.0	
Chloroform	*	*	*	*	*	<2.0	3.2	<1.0	<1.0	
1,2-DCA	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
1,1,1-TCA	*	0.4	*	*	*	<2.0	<2.0	<2.0	<2.0	
TCE	*	31.1	80.3	43.3	56.4	61	62	56	57	
1,1,2-TCA	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Methylene Chloride	*	*	*	*	*	<10	<5.0	<5.0	<5.0	
Acetone	*	*	*	*	NA	NA	NA	NA	NA	
Vinyl Chloride	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
PCE	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Xylenes	*	*	*	*	*	<5.0	<2.5	<2.5	<2.5	
Trichlorofluoromethane	0.9	1.7	*	*	*	<2.0	<1.0	<1.0	<1.0	
Trans-1,3-Dichloropropene	44.5	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Bromodichloromethane	*	*	*	*	*	<2.0	<1.0	<1.0	<1.0	
Dibromochloromethane	*	0.9	*	*	*	<2.0	<1.0	<1.0	<1.0	
Toluene	*	*	*	*	*	<2.0	<1.0	<1.0	1.6	
Benzene	*	*	*	*	*	*	*	*	1.3	

Notes:

Analytical results expressed in micrograms per liter ($\mu\text{g/l}$)

NA = Not analyzed

* = Not detected

() = Duplicate sample

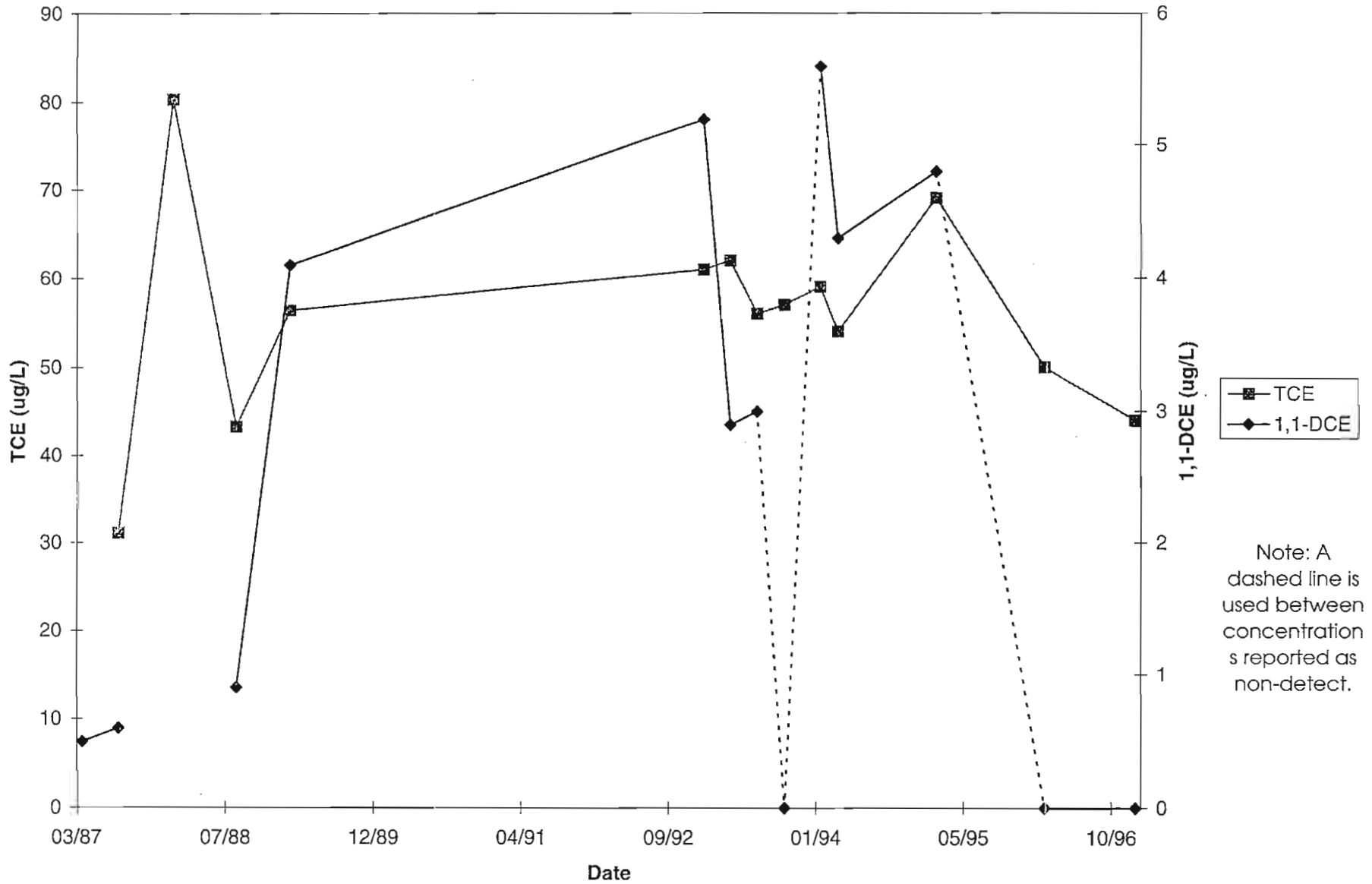
-- = Indicates monitoring well was not sampled during quarterly sampling event

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-6**

	DATE OF SAMPLING								
	09/94	12/94	03/95	05/95	09/95	12/95	03/96	06/96	09/96
Chloroethane	--	--	<4.0	--	--	--	<4.0	--	--
1,1-DCE	--	--	4.8	--	--	--	<4.0	--	--
1,1-DCA	--	--	5.4	--	--	--	<4.0	--	--
Cis/Trans-1,2-DCE	--	--	150	--	--	--	110	--	--
Chloroform	--	--	<4.0	--	--	--	<4.0	--	--
1,2-DCA	--	--	<4.0	--	--	--	<4.0	--	--
1,1,1-TCA	--	--	<4.0	--	--	--	<4.0	--	--
TCE	--	--	69	--	--	--	50	--	--
1,1,2-TCA	--	--	<4.0	--	--	--	<4.0	--	--
Methylene Chloride	--	--	<20	--	--	--	<20	--	--
Acetone	--	--	NA	--	--	--	NA	--	--
Vinyl Chloride	--	--	<4.0	--	--	--	<4.0	--	--
PCE	--	--	<4.0	--	--	--	<4.0	--	--
Xylenes	--	--	<10	--	--	--	<10	--	--
Trichlorofluoromethane	--	--	<4.0	--	--	--	<4.0	--	--
Trans-1,3-Dichloropropene	--	--	<4.0	--	--	--	<4.0	--	--
Bromodichloromethane	--	--	<4.0	--	--	--	<4.0	--	--
Dibromochloromethane	--	--	<4.0	--	--	--	<4.0	--	--
Toluene	--	--	<4.0	--	--	--	<4.0	--	--
Benzene	--	--	<4.0	--	--	--	<4.0	--	--

Notes:

TIME SERIES PLOT FOR TCE AND 1,1-DCE: DMW-6
 UMI - NOGLAES, AZ



Note: A dashed line is used between concentrations reported as non-detect.

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-7**

	DATE OF SAMPLING									
	01/87	08/87	02/88	09/88	03/89	01/93	04/93	07/93	10/93	
Chloroethane	*	*	N/A	N/A	*	N/A	N/A	<2.0	<2.0	
1,1-DCE	*	*	N/A	N/A	1.2	N/A	N/A	11(7.7)	8.7	
1,1-DCA	*	*	N/A	N/A	0.8	N/A	N/A	13(12)	18	
Cis/Trans-1,2-DCE	0.66	2.9	N/A	N/A	29.4	N/A	N/A	4.0(5.9)	1.6	
Chloroform	*	*	N/A	N/A	1.6	N/A	N/A	<1.0	<1.0	
1,2-DCA	*	*	N/A	N/A	*	N/A	N/A	<1.0	<1.0	
1,1,1-TCA	0.78	0.3	N/A	N/A	*	N/A	N/A	<2.0	<2.0	
TCE	1.21	5.0	N/A	N/A	27.9	N/A	N/A	57(55)	62	
1,1,2-TCA	*	*	N/A	N/A	*	N/A	N/A	<1.0	<1.0	
Methylene Chloride	*	*	N/A	N/A	*	N/A	N/A	<5.0	<5.0	
Acetone	*	*	N/A	N/A	NA	N/A	N/A	NA	NA	
Vinyl Chloride	*	*	N/A	N/A	*	N/A	N/A	<1.0	<1.0	
PCE	*	*	N/A	N/A	*	N/A	N/A	<1.0	<1.0	
Xylenes	*	*	N/A	N/A	*	N/A	N/A	<2.5	<2.5	
Trichlorofluoromethane	*	0.9	N/A	N/A	*	N/A	N/A	<1.0	<1.0	
Trans-1,3-Dichloropropene	*	*	N/A	N/A	*	N/A	N/A	<1.0	<1.0	
Bromodichloromethane	*	*	N/A	N/A	*	N/A	N/A	<1.0	<1.0	
Dibromochloromethane	*	*	N/A	N/A	*	N/A	N/A	<1.0	<1.0	
Toluene	*	*	N/A	N/A	*	N/A	N/A	<1.0	<1.0	
Benzene	*	*	N/A	N/A	*	N/A	N/A	<2.0	<2.0	

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

* = Not detected

() = Duplicate sample

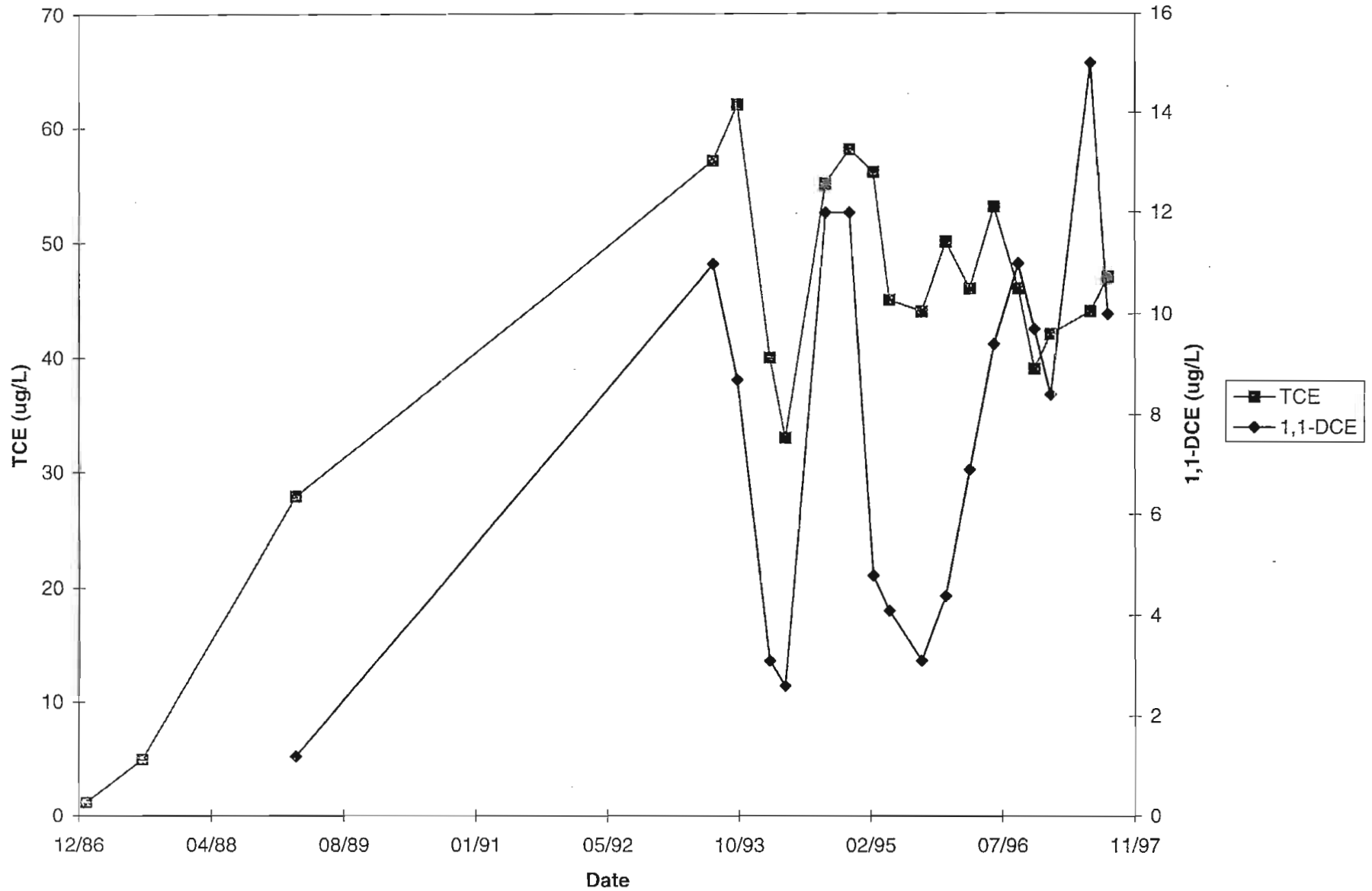
N/A = Not accessible for sampling

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-7**

	DATE OF SAMPLING								
	09/94	12/94	03/95	05/95	09/95	12/95	03/96	06/96	09/96
Chloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
1,1-DCE	12	12	4.8	4.1	3.1	4.4	6.9	9.4	11
1,1-DCA	20	19	4.3	4.7	3.7	5.5	9.5	12	15
Cis/Trans-1,2-DCE	180/<2.0	150/<2.0	88	74	98	90	100	110	120
Chloroform	<2.0	<2.0	2.7	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
1,2-DCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
TCE	55	58	56	45	44	50	46	53	46
1,1,2-TCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
Methylene Chloride	<10	<10	<10	<10	<10	<10	<10	<20	<20
Acetone	<2.0	<2.0	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	N/A	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
PCE	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
Xylenes	N/A	<2.0	<5.0	NA	NA	NA	<5.0	NA	NA
Trichlorofluoromethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
Trans-1,3-Dichloropropene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
Bromodichloromethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
Dibromochloromethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	<4.0
Toluene	NA	NA	<2.0	NA	NA	NA	<2.0	NA	NA
Benzene	<2.0	<2.0	<2.0	NA	NA	NA	<2.0	NA	NA

Notes:

TIME SERIES PLOT FOR TCE AND 1,1-DCE: DMW-7
UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-8**

	DATE OF SAMPLING								
	09/86	01/87	08/87	02/88	09/88	03/89	01/93	04/93	07/93
Chloroethane	*	*	*	*	*	*	<4.0	<2.0	<2.0
1,1-DCE	*	*	*	*	*	*	2.1	1.0	3.9
1,1-DCA	*	*	*	*	*	*	2.1	1.4	4.7
Cis/Trans-1,2-DCE	*	*	*	*	*	*	<2.0	<1.0	<1.0
Chloroform	*	*	*	*	*	*	<2.0	<1.0	<1.0
1,2-DCA	*	*	*	*	*	*	<2.0	<1.0	<1.0
1,1,1-TCA	0.7	0.52	0.2	0.4	*	*	<2.0	<2.0	<2.0
TCE	*	*	*	*	*	*	2.9	2.3	2.1
1,1,2-TCA	*	*	*	*	*	*	<2.0	<1.0	<1.0
Methylene Chloride	*	*	*	*	*	NA	<10	<5.0	<5.0
Acetone	*	*	*	*	*	*	NA	NA	NA
Vinyl Chloride	*	*	*	*	*	*	<7.0	<1.0	<1.0
PCE	*	*	3.3	8.2	*	*	<2.0	<1.0	<1.0
Xylenes	*	*	*	*	*	*	<5.0	<2.5	<2.5
Trichlorofluoromethane	*	*	*	*	*	*	<2.0	<1.0	<1.0
Trans-1,3-Dichloropropene	*	*	*	*	*	*	<2.0	<1.0	<1.0
Bromodichloromethane	*	*	*	*	*	*	<2.0	<1.0	<1.0
Dibromochloromethane	*	*	*	*	*	*	<2.0	<1.0	<1.0
Toluene	*	*	*	*	*	*	<2.0	<1.0	<1.0
Benzene	*	*	*	*	*	*	*	*	*

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

* = Not detected

N/A = Not accessible for sampling

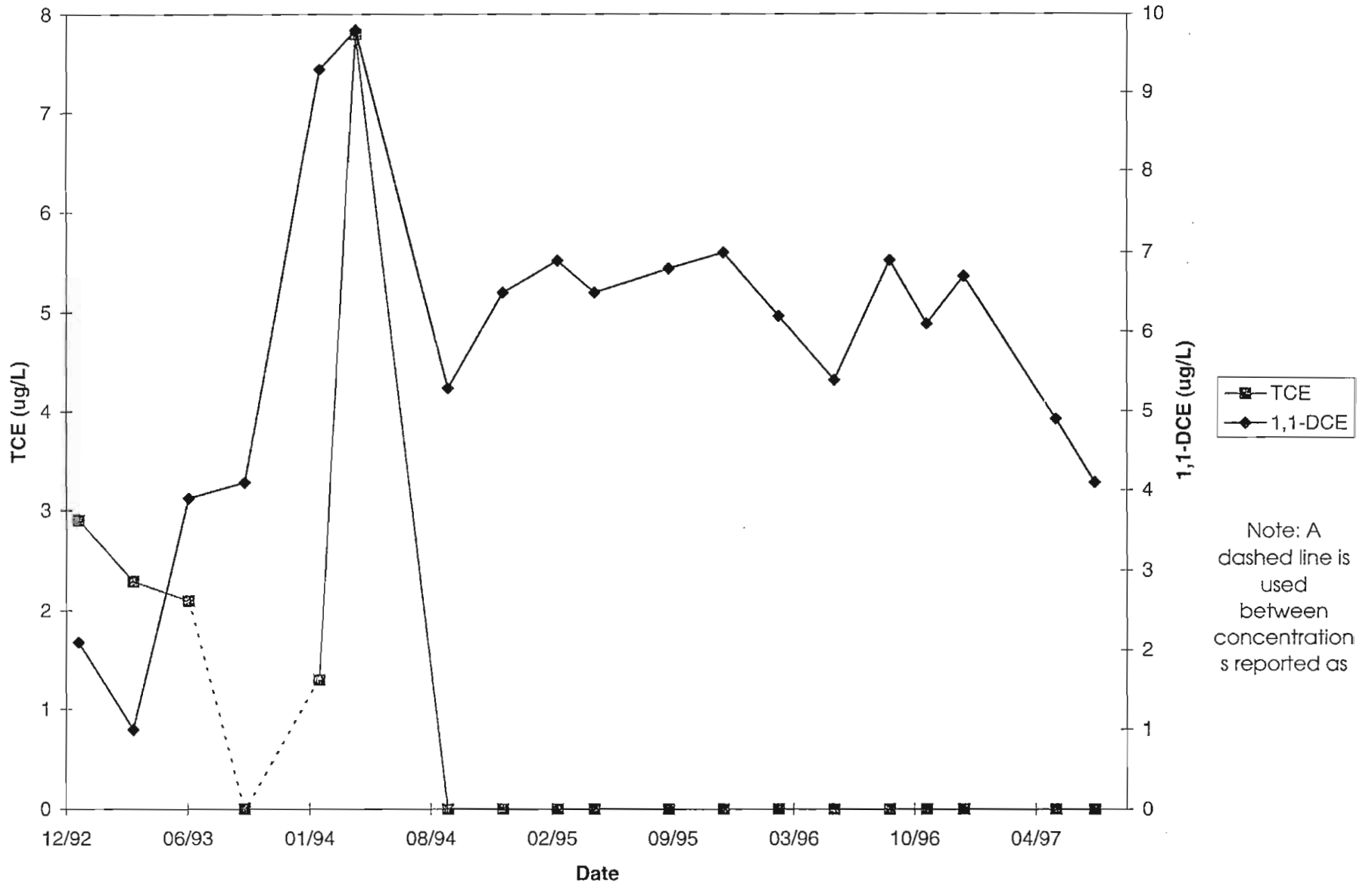
**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-8**

	DATE OF SAMPLING									
	04/94	09/94	12/94	03/95	05/95	09/95	12/95	03/96	06/96	
Chloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
1,1-DCE	9.8	5.3	6.5	6.9	6.5	6.8	7	6.2	5.4	
1,1-DCA	14	6.3	9.1	7.3	7.3	8.1	9.9	8.3	6.0	
Cis/Trans-1,2-DCE	7.3	6.7<2.0	5.9	<2.0	2.1	2.8	3.2	3.0	3.0	
Chloroform	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
1,2-DCA	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
TCE	7.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
1,1,2-TCA	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Methylene Chloride	<5.0	<10	<2.0	<10	<10	<10	<10	<10	<10	
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vinyl Chloride	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
PCE	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Xylenes	<2.5	NA	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	
Trichlorofluoromethane	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Trans-1,3-Dichloropropene	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Bromodichloromethane	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Dibromochloromethane	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Toluene	<1.0	NA	NA	<2.0	NA	NA	NA	<2.0	NA	
Benzene	<1.0	NA	NA	<2.0	NA	NA	NA	<2.0	NA	

Notes:

Analytical results expressed in micrograms per liter (µg/l)

TIME SERIES PLOT FOR TCE AND 1,1-DCE: DMW-8
 UMI - NOGALES, AZ



**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-9**

	DATE OF SAMPLING									
	02/94	04/94	09/94	12/94	03/95	05/95	09/95	12/95	03/96	
Chloroethane	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCE	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCA	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Cis/Trans-1,2-DCE	<1.0	<1.0/<2.0	<2.0/<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-DCA	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TCE	1.6	<2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-TCA	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<5.0	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PCE	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	<2.5	NA	NA	<5.0	<5.0	NA	NA	NA	NA	<5.0
Trichlorofluoromethane	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trans-1,3-Dichloropropene	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1.0	NA	NA	NA	<2.0	NA	NA	NA	NA	<2.0
Benzene	<1.0	<1.0	NA	NA	<2.0	NA	NA	NA	NA	<2.0

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-9**

	DATE OF SAMPLING				
	09/96	11/96	01/97	06/97	08/97
Chloroethane	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCE	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCA	<2.0	<2.0	<2.0	<2.0	<2.0
Cis/Trans-1,2-DCE	<2.0	<2.0	<2.0	<2.0	<2.0
Chloroform	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-DCA	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	<2.0
TCE	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,2-TCA	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<10	<10	<10	<10	<10
Acetone	NA	NA	NA	NA	NA
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<2.0
PCE	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	NA	NA	NA	NA	NA
Trichlorofluoromethane	<2.0	<2.0	<2.0	<2.0	<2.0
Trans-1,3-Dichloropropene	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

**APPENDIX 6
HISTORICAL GROUNDWATER ANALYTICAL DATA
MONITORING WELL DMW-10**

	DATE OF SAMPLING										
	03/95	05/95	09/95	12/95	03/96	06/96	09/96	11/96	01/97	06/97	08/97
Chloroethane	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1-DCE	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	3.9	<2.0	<2.0	<2.0
1,1-DCA	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	8.8	<2.0	<2.0	<2.0
Cis/Trans-1,2-DCE	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	4.5	<2.0	<2.0	<2.0
Chloroform	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-DCA	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,1,1-TCA	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
TCE	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	12	<2.0	<2.0
1,1,2-TCA	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10
Acetone	NA	NA	NA	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
PCE	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Xylenes	<5.0	NA	NA	NA	<25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Trans-1,3-Dichloropropene	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bromodichloromethane	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Dibromochloromethane	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<2.0	NA	NA	NA	13	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	<2.0	NA	NA	NA	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

Notes:

Analytical results expressed in micrograms per liter (µg/l)

NA = Not analyzed

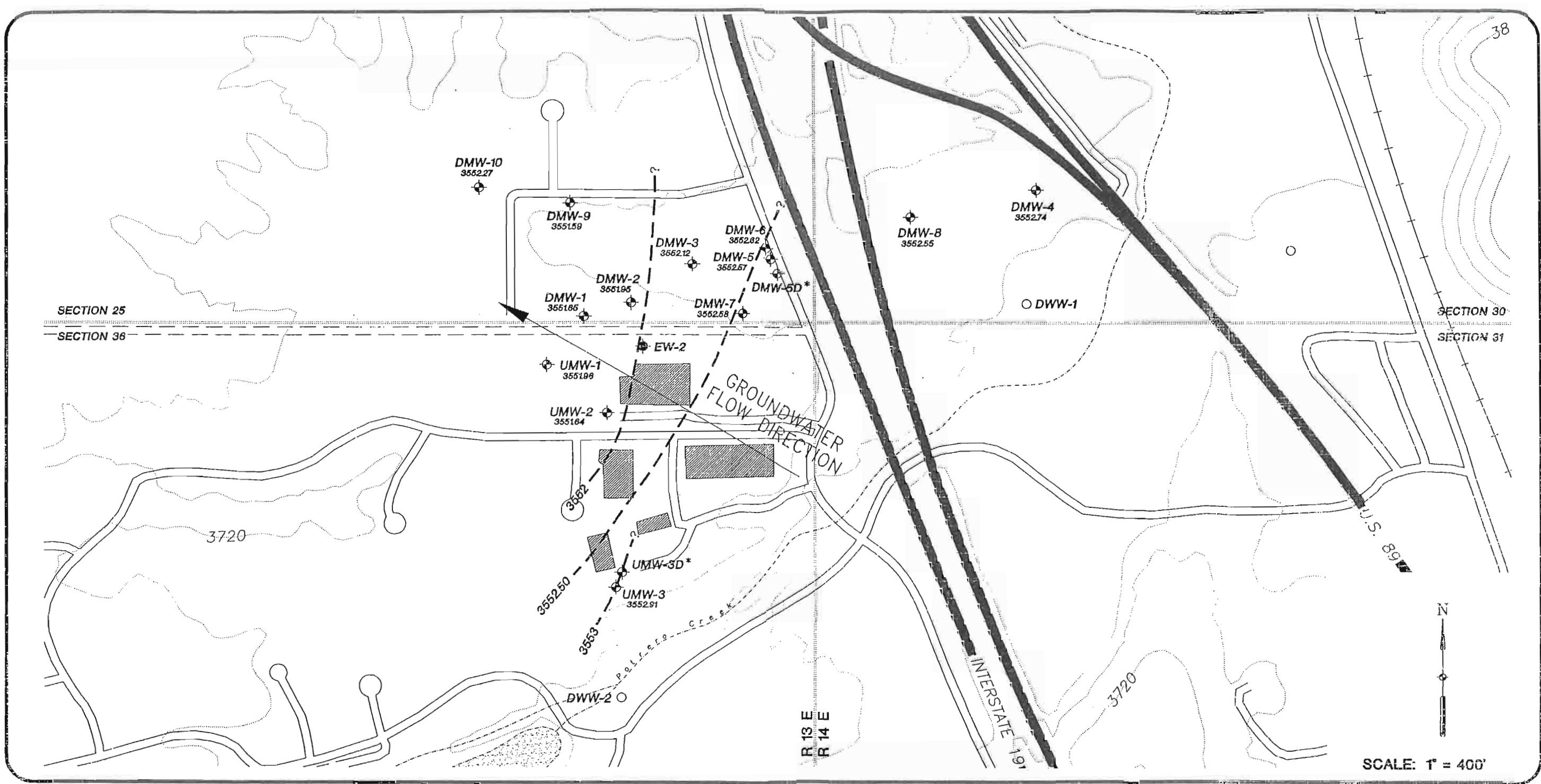
PRELIMINARY
APPENDIX SEVEN

Groundwater Flow Direction and Pumping Activity
of City of Nogales Well No. 2 (DWW-2)

Appendix 7
Monthly Extraction from the City of Nogales Water Well DWW-2
UMI, Nogales AZ

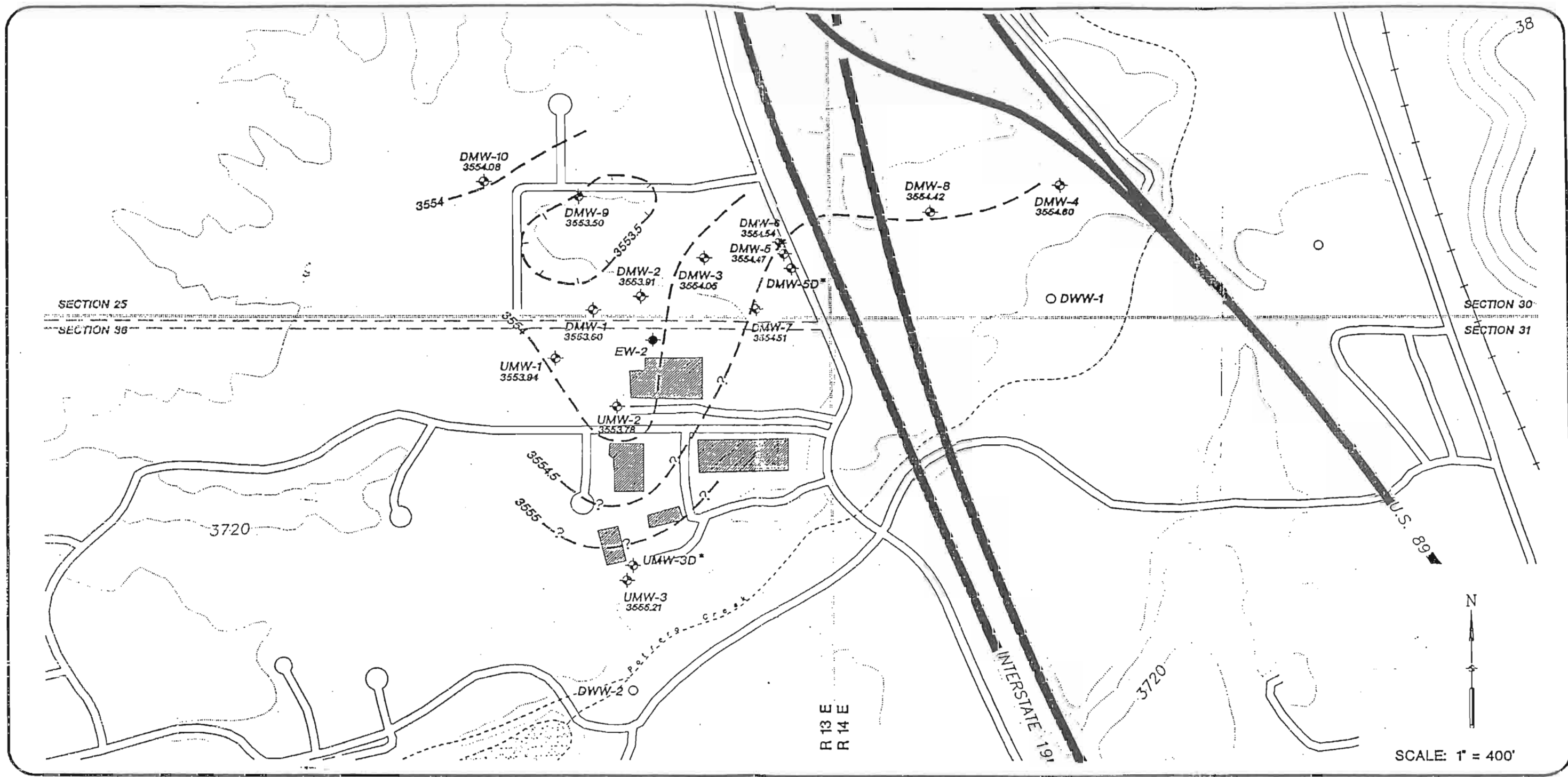
Month/ Year	Gallons Withdrawn	Month/ Year	Gallons Withdrawn	Month/ Year	Gallons Withdrawn	Month/ Year	Gallons Withdrawn
Jan-95	0	Sep-95	0	Jun-96	6,122,000	Mar-97	4,386,000
Feb-95	0	Oct-95	0	Jul-96	1,887,000	Apr-97	4,912,000
Mar-95	0	Nov-95	0	Aug-96	3,099,000	May-97	5,617,000
Apr-95	0	Dec-95	0	Sep-96	4,282,000	Jun-97	15,659,000*
May-95	0	Jan-96	0	Oct-96	4,738,000	Jul-97	24,097,000
Jun-95	0	Feb-96	604,000	Nov-96	4,218,000	Aug-97	6,158,000
Jul-95	0	Mar-96	23,588,000	Dec-96	2,714,000	Sep-97	16,144,000
Jul-95	0	Apr-96	5,334,000	Jan-97	1,338,000		
Aug-95	0	May-96	5,948,000	Feb-97	2,450,000		

* This value changed by the City of Nogales since Second Quarter, 1997 Report.



KEY	
◆ DMW-4	UMI MONITORING WELL
○ DMW-1	WATER SUPPLY WELL
◆ EW-2	EXTRACTION WELL
- 3552 -	ESTIMATED GROUNDWATER ELEVATION CONTOUR
3552.91	GROUNDWATER ELEVATION IN FEET MSL
*	WELL SCREENED IN DEEPER INTERVAL NOT INCLUDED FOR CONTOURING PURPOSES.

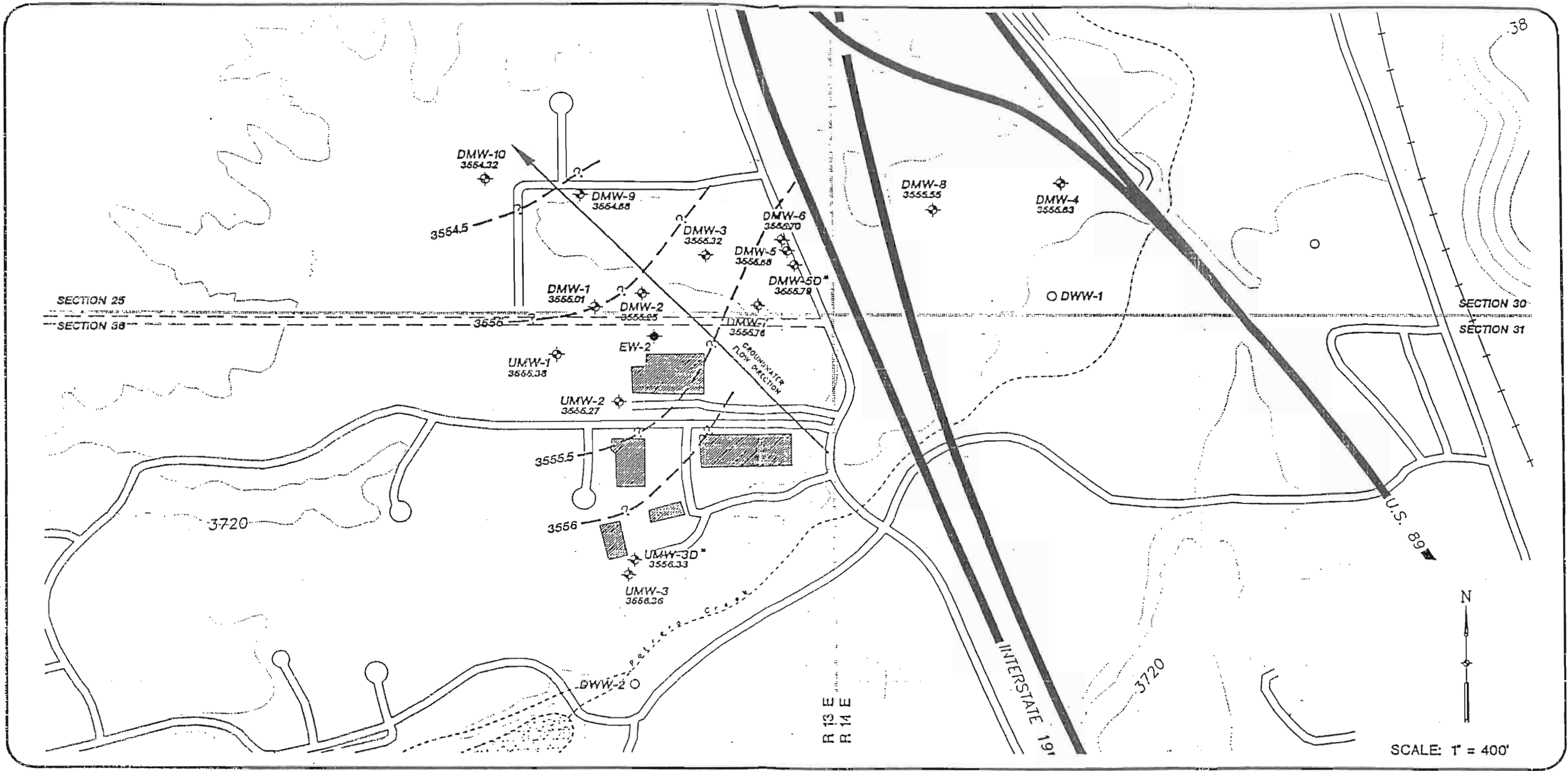
UMI GROUNDWATER REMEDIATION		
GROUNDWATER CONTOUR MAP - MAY 1995		
Project No. : 944X050A	FIGURE 1	
Drawn By: T.M.L	Checked By: D.M.A	7/20/95



KEY	
◆ DMW-4	UMI MONITORING WELL
○ DMW-1	WATER SUPPLY WELL
◆ EW-2	EXTRACTION WELL
- 3554 -	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET
3553.60	GROUNDWATER ELEVATION IN FEET MSL
*	WELL SCREENED IN DEEPER INTERVAL NOT INCLUDED FOR CONTOURING PURPOSES.

UMI GROUNDWATER REMEDIATION		
GROUNDWATER CONTOUR MAP - AUGUST 1995		
Project No. : 944X050A	FIGURE	2
Drawn By: T.M.L.	Checked By: J.E.F.	10/20/95

90059D07



KEY

DMW-4 UMI MONITORING WELL

DWW-1 WATER SUPPLY WELL

EW-2 EXTRACTION WELL

3554 ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET

3552.19 GROUNDWATER ELEVATION IN FEET MSL

* WELL SCREENED IN DEEPER INTERVAL NOT INCLUDED FOR CONTOURING PURPOSES.

UMI GROUNDWATER REMEDIATION

GROUNDWATER CONTOUR MAP - NOVEMBER 1995

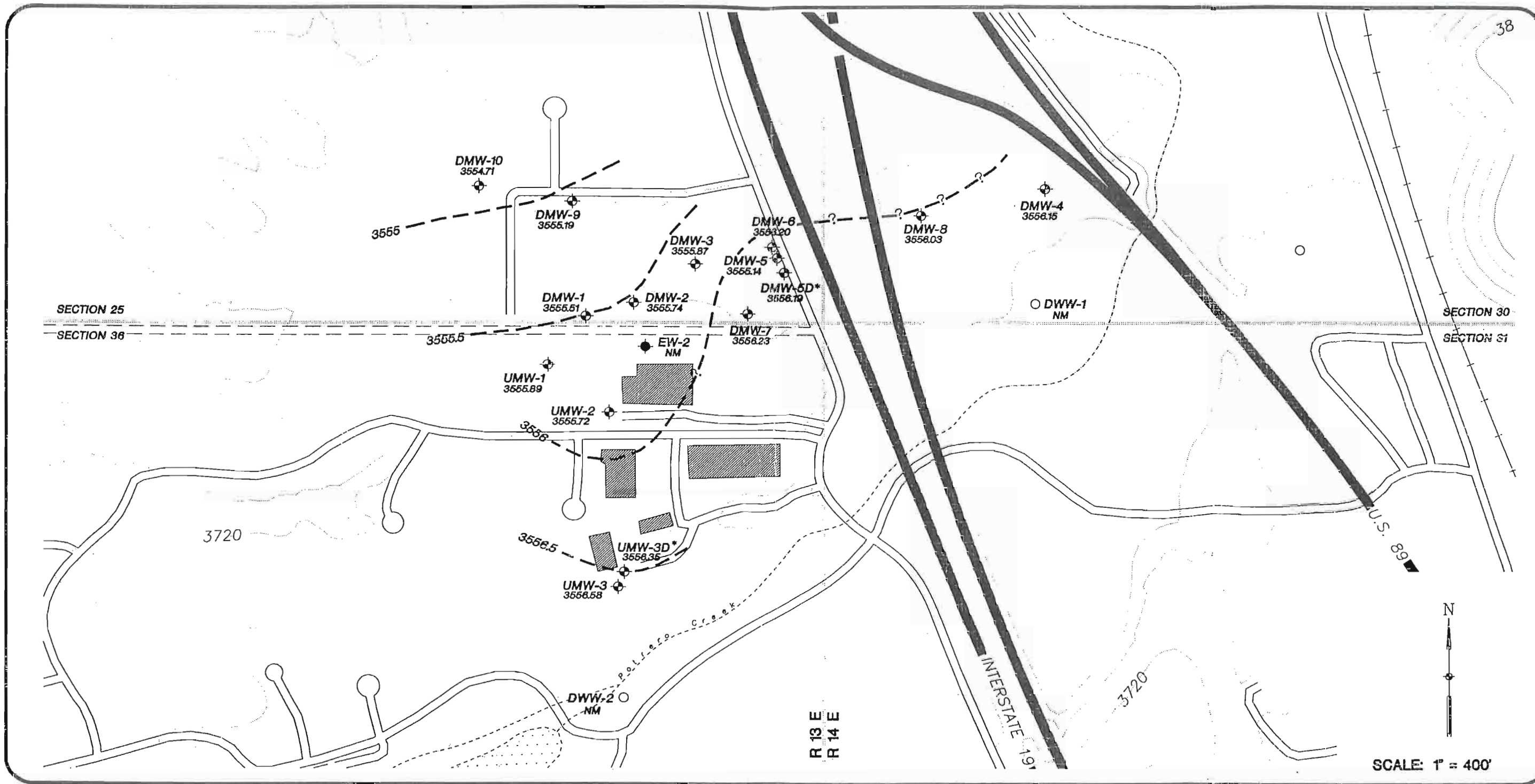
Project No. : 944X050A

FIGURE 3

Drawn By: T.M.L.

Checked By: J.E.F.

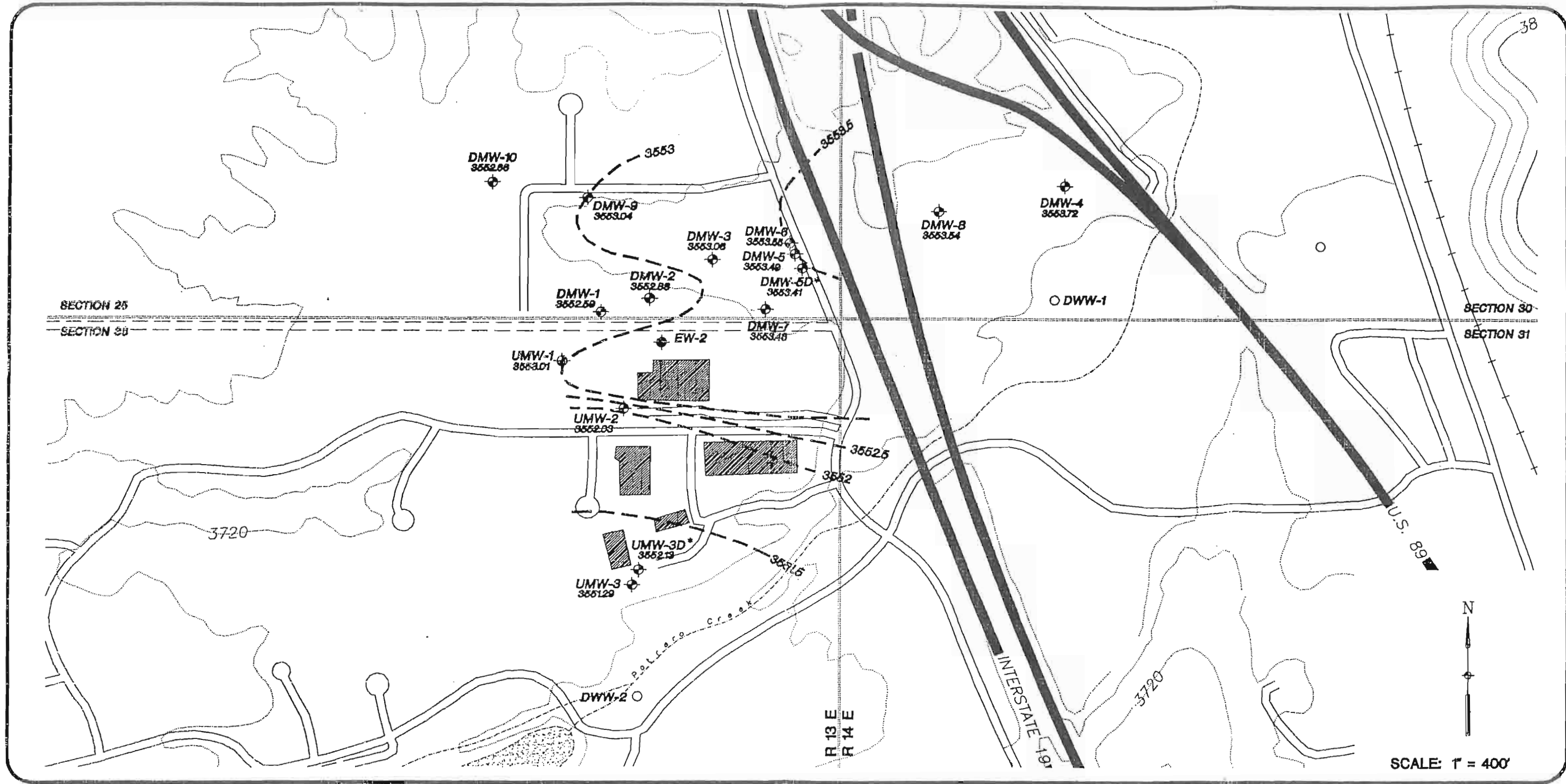
1/26/96



KEY	
◆ DMW-4	UMI MONITORING WELL
○ DWW-1	WATER SUPPLY WELL
◆ EW-2	EXTRACTION WELL
- - - 3554 - - -	ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET
3552.19	GROUNDWATER ELEVATION IN FEET MSL
*	WELL SCREENED IN DEEPER INTERVAL NOT INCLUDED FOR CONTOURING PURPOSES.

UMI GROUNDWATER REMEDIATION		
GROUNDWATER CONTOUR MAP - FEBRUARY 1996		
Project No. : 944X050A	FIGURE 4	
Drawn By: T.M.L.	Checked By: J.E.F.	4/26/96

9005C



KEY

- ◆ DMW-4 UMI MONITORING WELL
- DWW-1 WATER SUPPLY WELL
- ◆ EW-2 EXTRACTION WELL
- - - 3554 - - - ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET

3552.10 GROUNDWATER ELEVATION IN FEET MSL

* WELL SCREENED IN DEEPER INTERVAL NOT INCLUDED FOR CONTOURING PURPOSES.

UMI GROUNDWATER REMEDIATION

GROUNDWATER CONTOUR MAP - MAY 1996

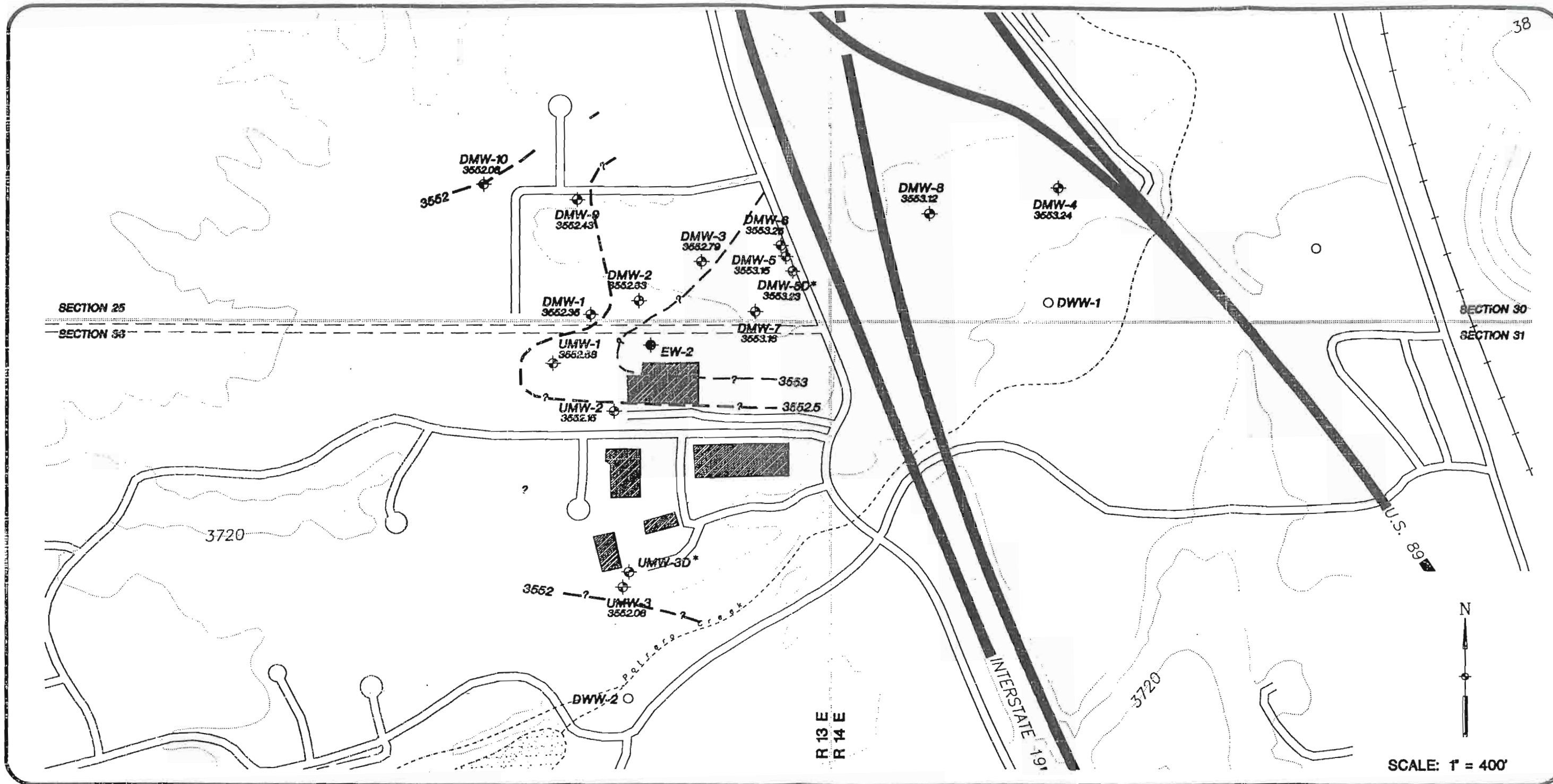
Project No. : 944X050A

FIGURE 5

Drawn By: T.M.L

Checked By: J.E.F.

7/24/96



KEY

- ⊕ DMW-4 UMI MONITORING WELL
- DWW-1 WATER SUPPLY WELL
- ⊕ EW-2 EXTRACTION WELL
- 3554 --- ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET

3552.79 GROUNDWATER ELEVATION IN FEET MSL

* WELL SCREENED IN DEEPER INTERVAL NOT INCLUDED FOR CONTOURING PURPOSES.

UMI GROUNDWATER REMEDIATION

GROUNDWATER CONTOUR MAP - AUGUST 1996

Project No. : 944X050A

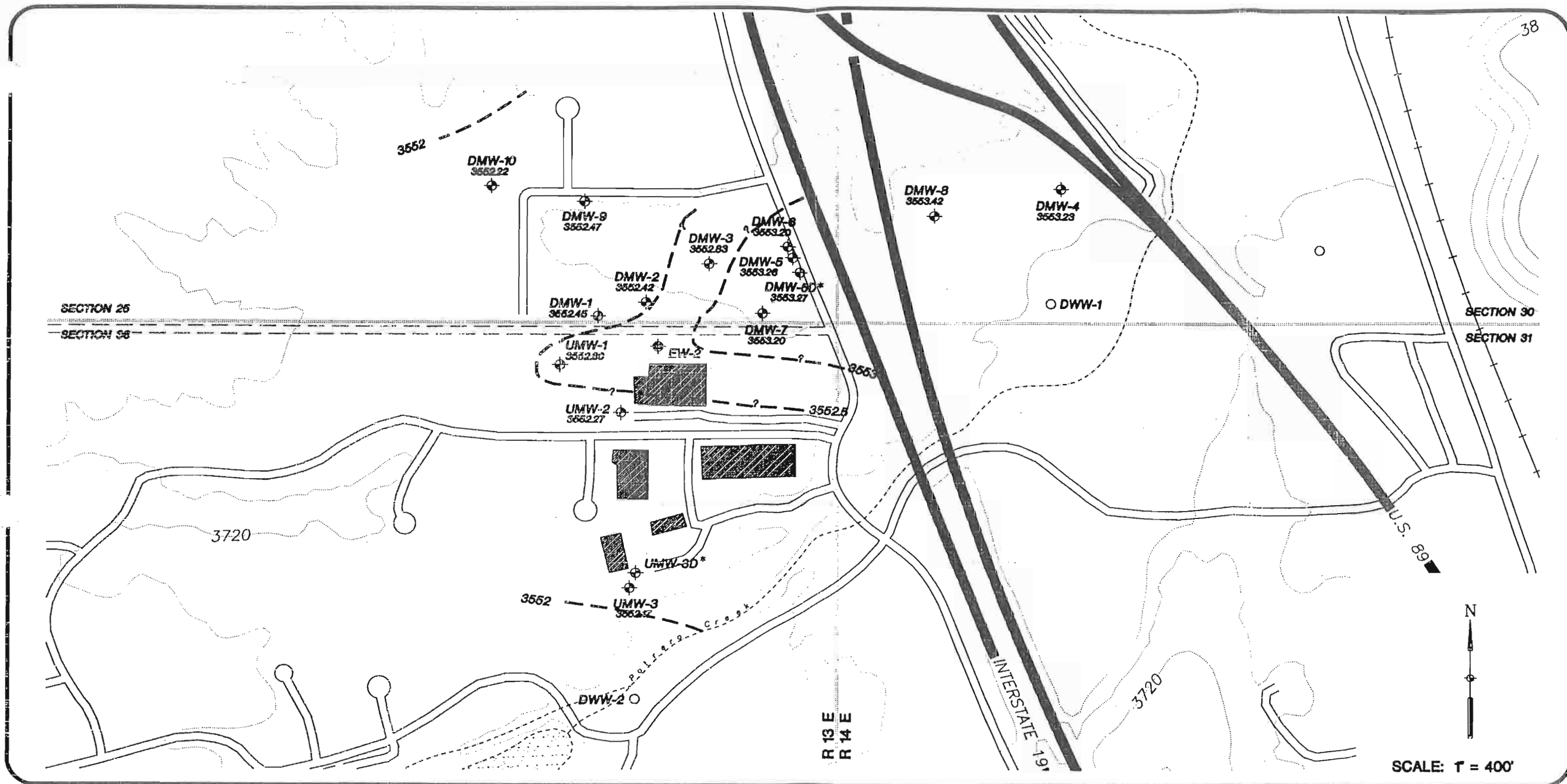
FIGURE 6

Drawn By: B.S.A.

Checked By: B.K.S.

4/23/97

ELEV996



KEY

- ⊕ DMW-4 UMI MONITORING WELL
- DWW-1 WATER SUPPLY WELL
- ⊕ EW-2 EXTRACTION WELL
- - - 3554 - - ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET

3552.19 GROUNDWATER ELEVATION IN FEET MSL

* WELL SCREENED IN DEEPER INTERVAL NOT INCLUDED FOR CONTOURING PURPOSES.

UMI GROUNDWATER REMEDIATION

GROUNDWATER CONTOUR MAP - NOVEMBER 1996

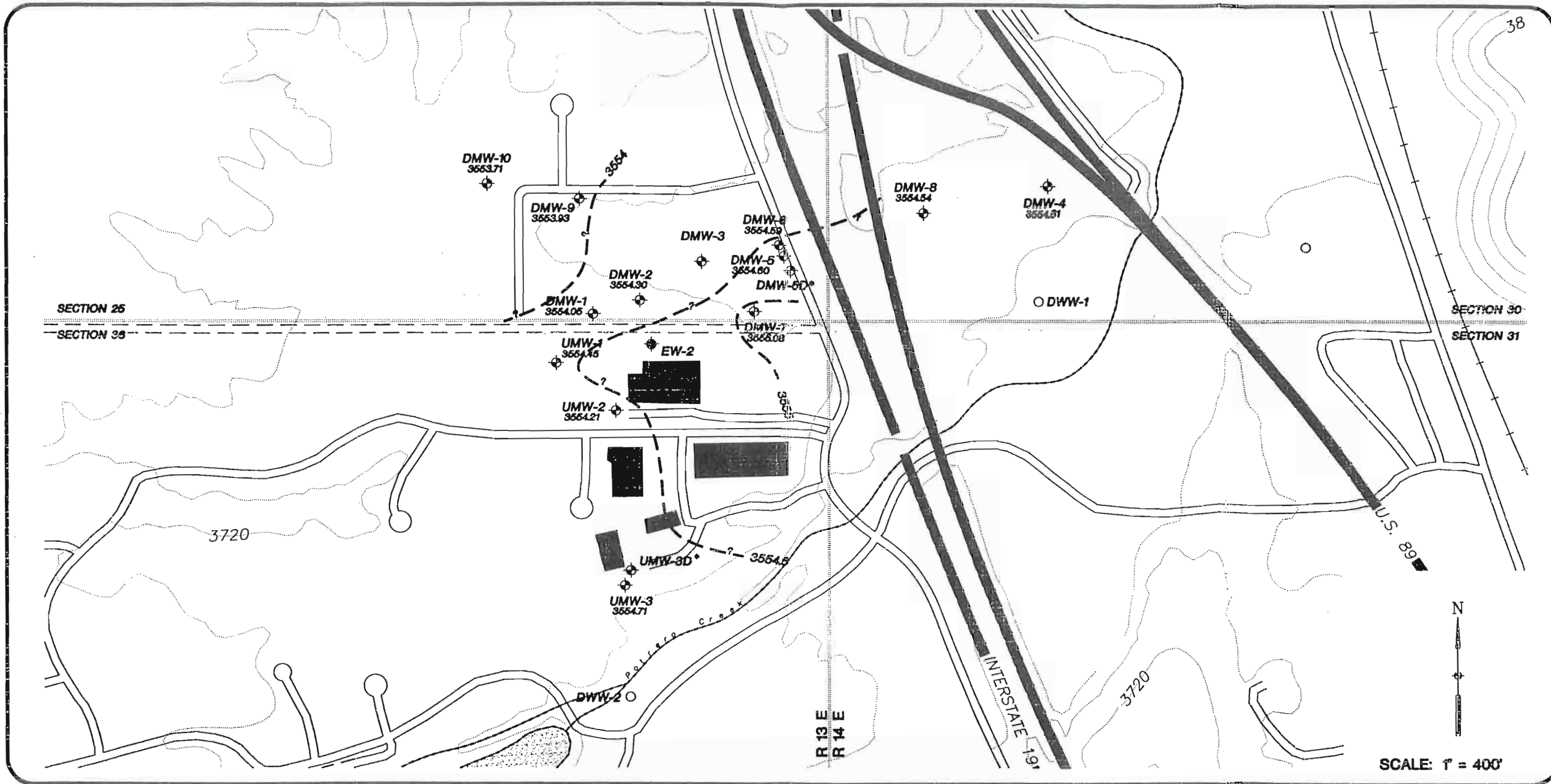
Project No. : 944X050A

FIGURE 7

Drawn By: B.S.A.

Checked By: B.K.S.

4/22/97



KEY

⊕ DMW-4 UMI MONITORING WELL

○ DWW-1 WATER SUPPLY WELL

⊕ EW-2 EXTRACTION WELL

--- 3654 --- ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET

3652.10 GROUNDWATER ELEVATION IN FEET MSL

* WELL SCREENED IN DEEPER INTERVAL NOT INCLUDED FOR CONTOURING PURPOSES.

UMI GROUNDWATER REMEDIATION

GROUNDWATER CONTOUR MAP - FEBRUARY 1997

Project No. : 944X050A

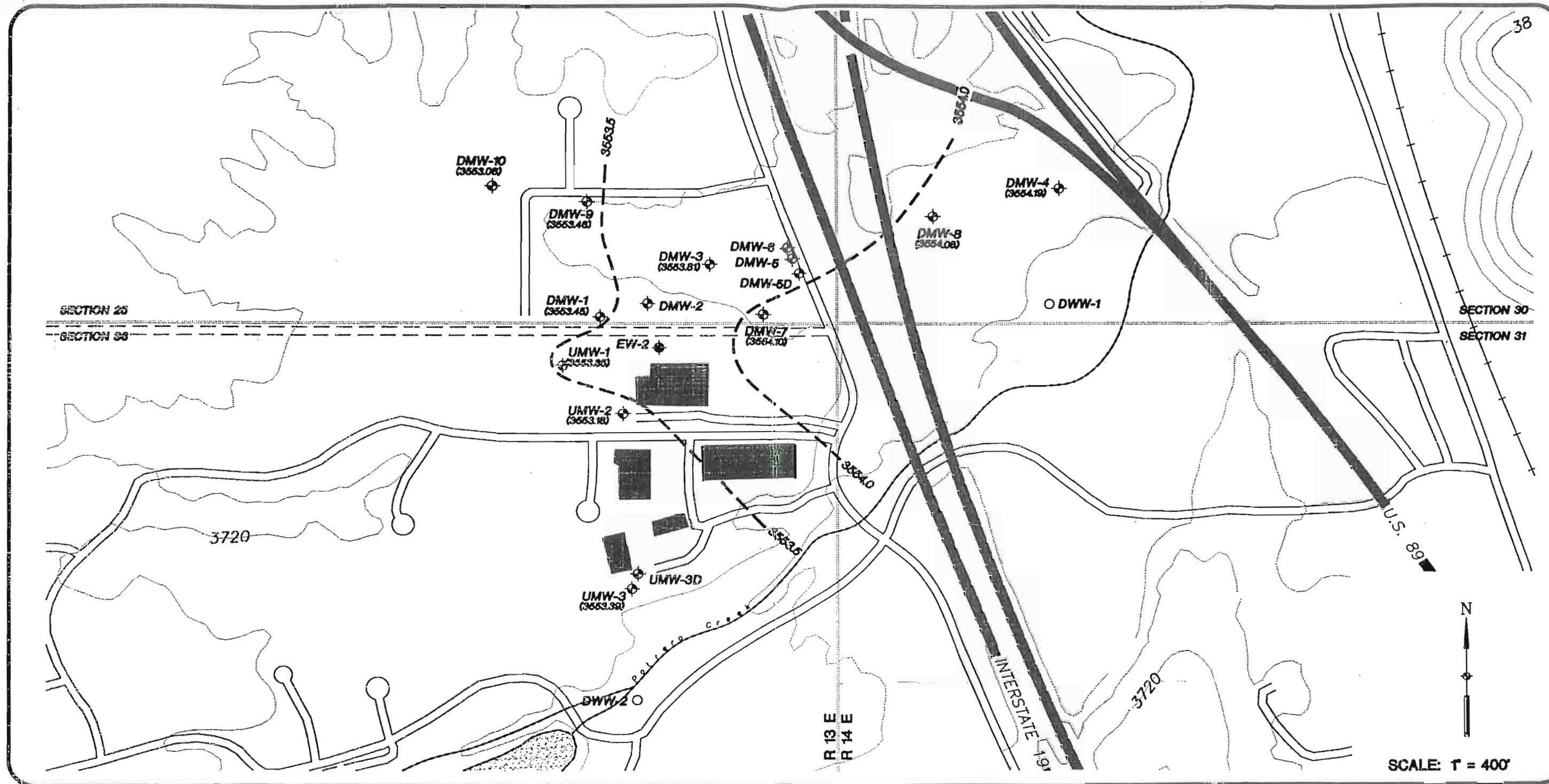
FIGURE 8

Drawn By: B.S.A.

Checked By: B.K.S.

4/12/97

ELEV25'



KEY

- ⊕ DMW-4 UMI MONITORING WELL
- DWW-1 WATER SUPPLY WELL
- ⊕ EW-2 EXTRACTION WELL
- ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET
- (3663.06) ESTIMATED GROUNDWATER ELEVATION IN FEET

UMI GROUNDWATER REMEDIATION

GROUNDWATER POTENTIOMETRIC MAP - MAY 1997

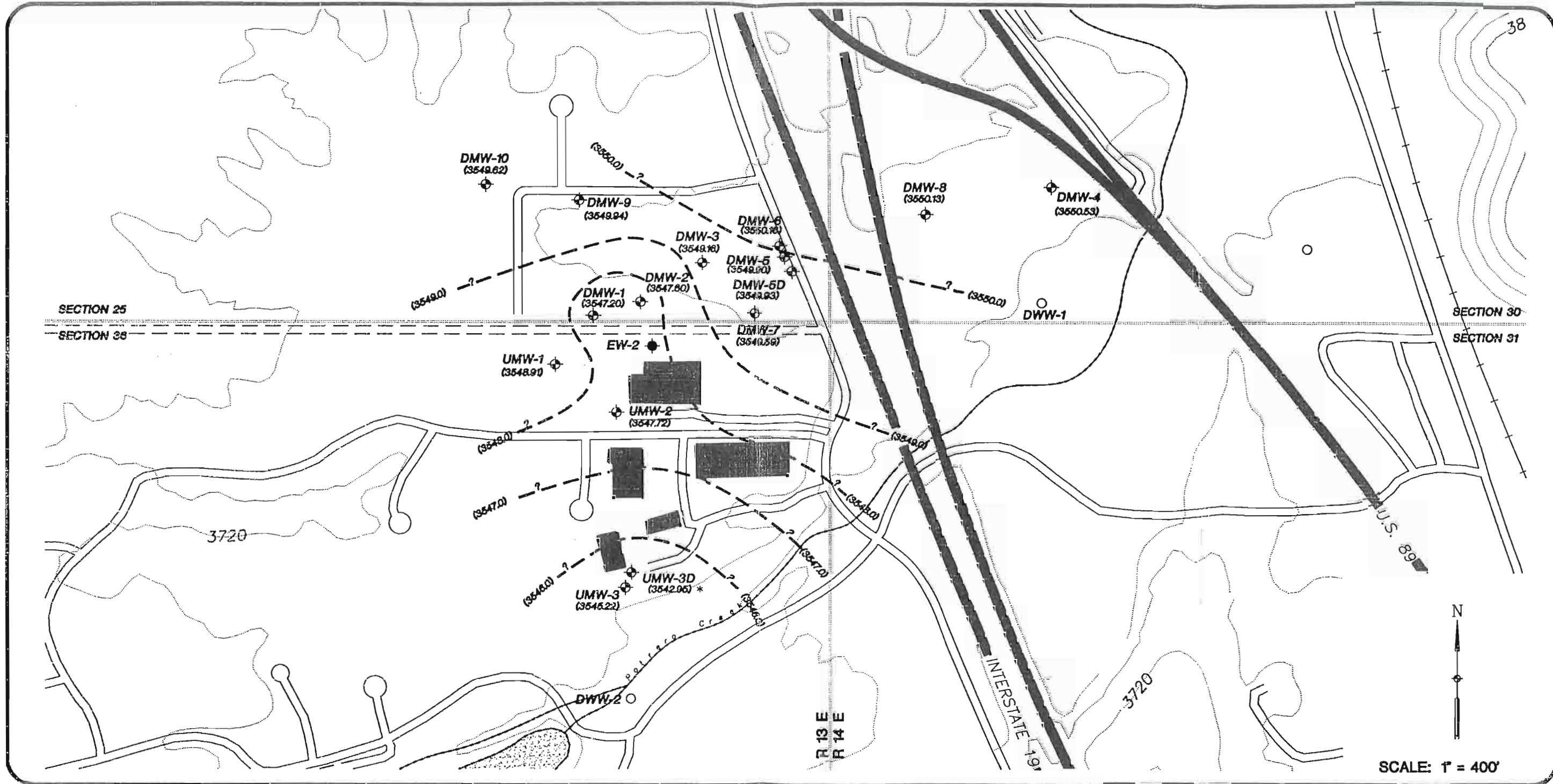
Project No. : 844X050A

FIGURE 9

Drawn By: CM

Checked By:

7-14-97



KEY

- ⊕ DMW-4 UMI MONITORING WELL
- DWW-1 WATER SUPPLY WELL
- ⊕ EW-2 EXTRACTION WELL

--- 3550.0 --- ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET

(3547.20) GROUNDWATER ELEVATION

* GROUNDWATER ELEVATION NOT INCLUDED IN CONTOURING

UMI GROUNDWATER REMEDIATION

GROUNDWATER ELEVATION CONTOURS - AUGUST 1997

Project No. : 944X050A

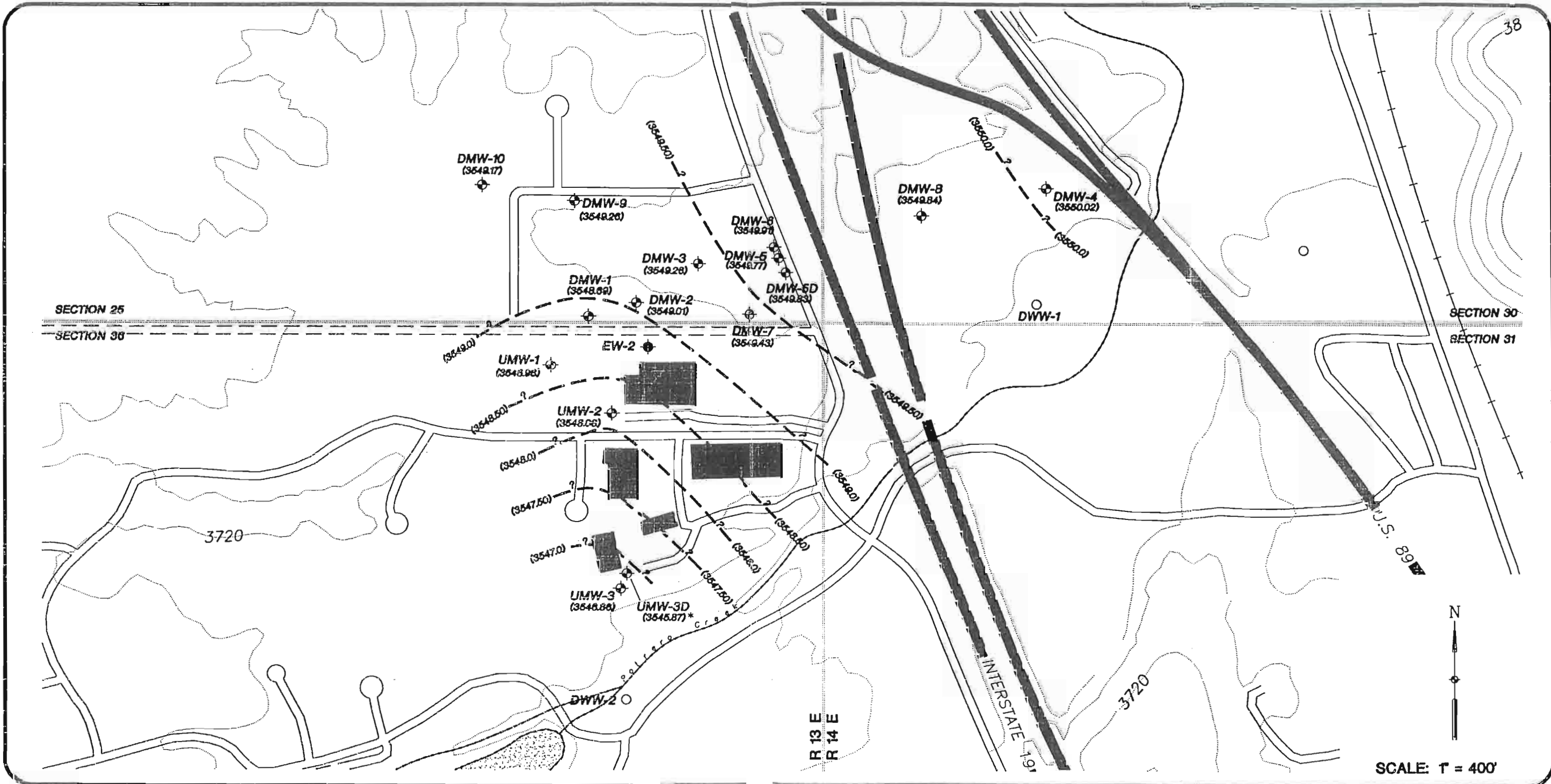
FIGURE 10

Drawn By: CM

Checked By: *ANS*

10-17-97

GWAUCS7



KEY

- ⊕ DMW-4 UMI MONITORING WELL
- DWW-1 WATER SUPPLY WELL
- ⊕ EW-2 EXTRACTION WELL
- 3550.0 --- ESTIMATED GROUNDWATER ELEVATION CONTOUR IN FEET
- (3548.86) GROUNDWATER ELEVATION
- * GROUNDWATER ELEVATION NOT INCLUDED IN CONTOURING

UMI GROUNDWATER REMEDIATION

GROUNDWATER ELEVATION CONTOURS - SEPTEMBER 1997

Project No. : 944X050A

FIGURE 11

Drawn By: CM

Checked By: *KVS*

10-17-97

GWSEP97