

EXPLANATION

- BASIN FILL
- MORITA FORMATION
- GLANCE CONGLOMERATE
- PALEOZOIC SEDIMENTS
- MIXED, BASIN FILL & MORITA FORMATION
- TM-1 WELL ID.
- 4443.2 WATER ELEVATION (FT AMSL)
- WATER CONTOUR LINE (DASHED WHERE INFERRED)
- INTERMEDIATE WATER CONTOUR LINE (DASHED WHERE INFERRED)
- WHERE INFERRED
- FAULT (DASHED WHERE INFERRED) FROM SET 1998C
- 1 WATER LEVELS FROM TM-41 & TM-42 ARE FROM 1997

WATER LEVEL MAP 1996

CONCENTRATOR TAILING STORAGE AREA AND VICINITY

BISBEE, ARIZONA

HYDRO GEO CHEM, INC.

MAR SOURCE USGS 7.5 MIN QUADS: BISBEE, BISBEE NE, BISBEE SE AND NACO, ARIZONA. NAD 27 ZONE 12 CENTRAL METERS

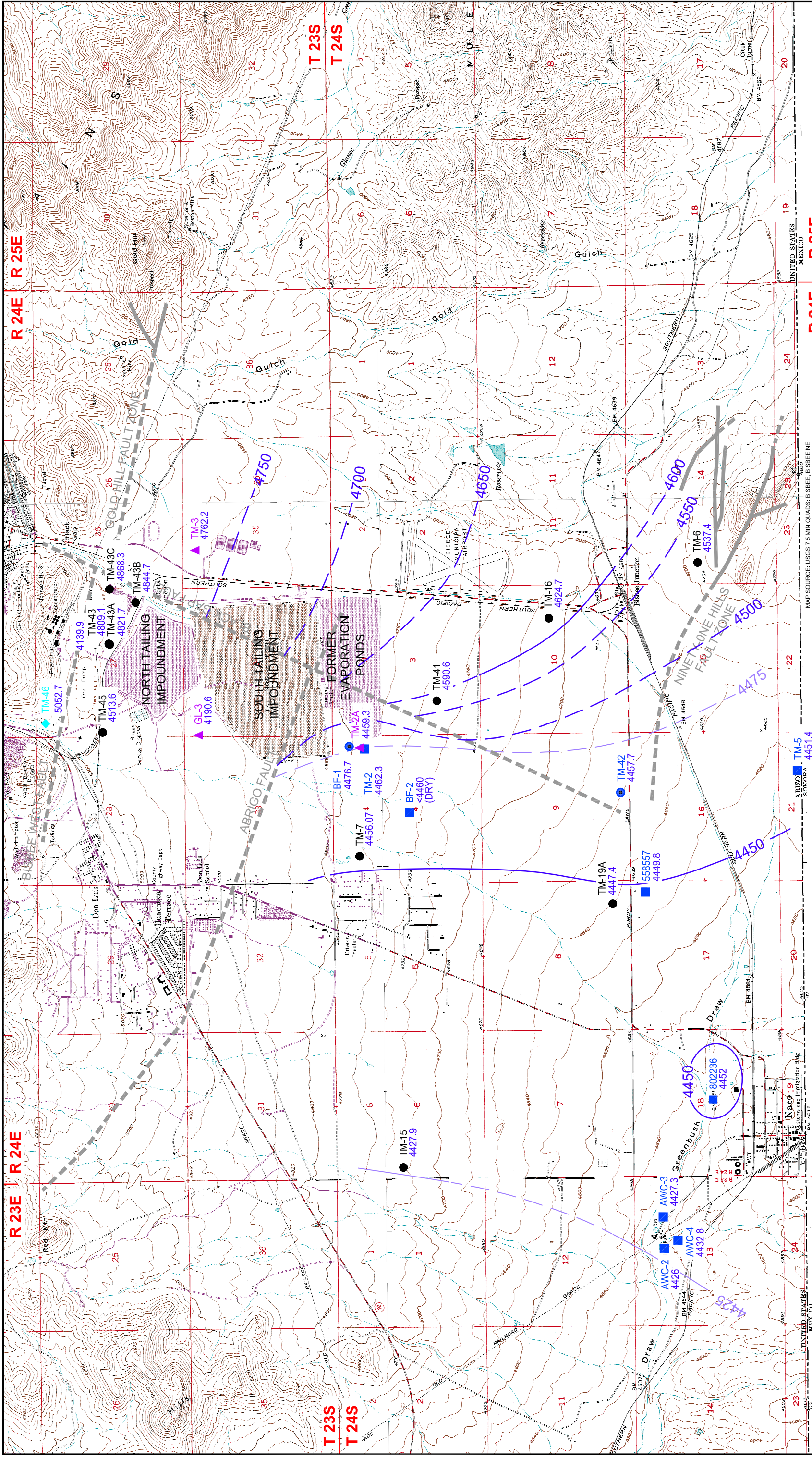
Approved **KSW** Date **04/04/07** Revised By **KSW** Date **07/19/07** File Name **8720022A** Figure **9**

0 1/2 1 MILE

0 2000 4000 6000 FEET

0 .5 1 2 KILOMETER

N ↑



EXPLANATION

- TM-1 WELL ID.
- 4443.2 WATER ELEVATION (FT AMSL)
- WATER CONTOUR LINE (DASHED WHERE INFERRED)
- INTERMEDIATE WATER CONTOUR LINE (DASHED WHERE INFERRED)
- MURITIA FORMATION FROM SET 1998C
- BASIN FILL
- MORITA FORMATION
- MORITA CONGLOMERATE
- PALEOZOIC SEDIMENTS
- MIXED, BASIN FILL & MORITA FORMATION
- MURAL LIMESTONE

EXPLANATION

- TM-1 WELL ID.
- 4443.2 WATER ELEVATION (FT AMSL)
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- MORITA CONGLOMERATE
- PALEOZOIC SEDIMENTS
- MIXED, BASIN FILL & MORITA FORMATION
- MURAL LIMESTONE

WATER LEVEL MAP 1999

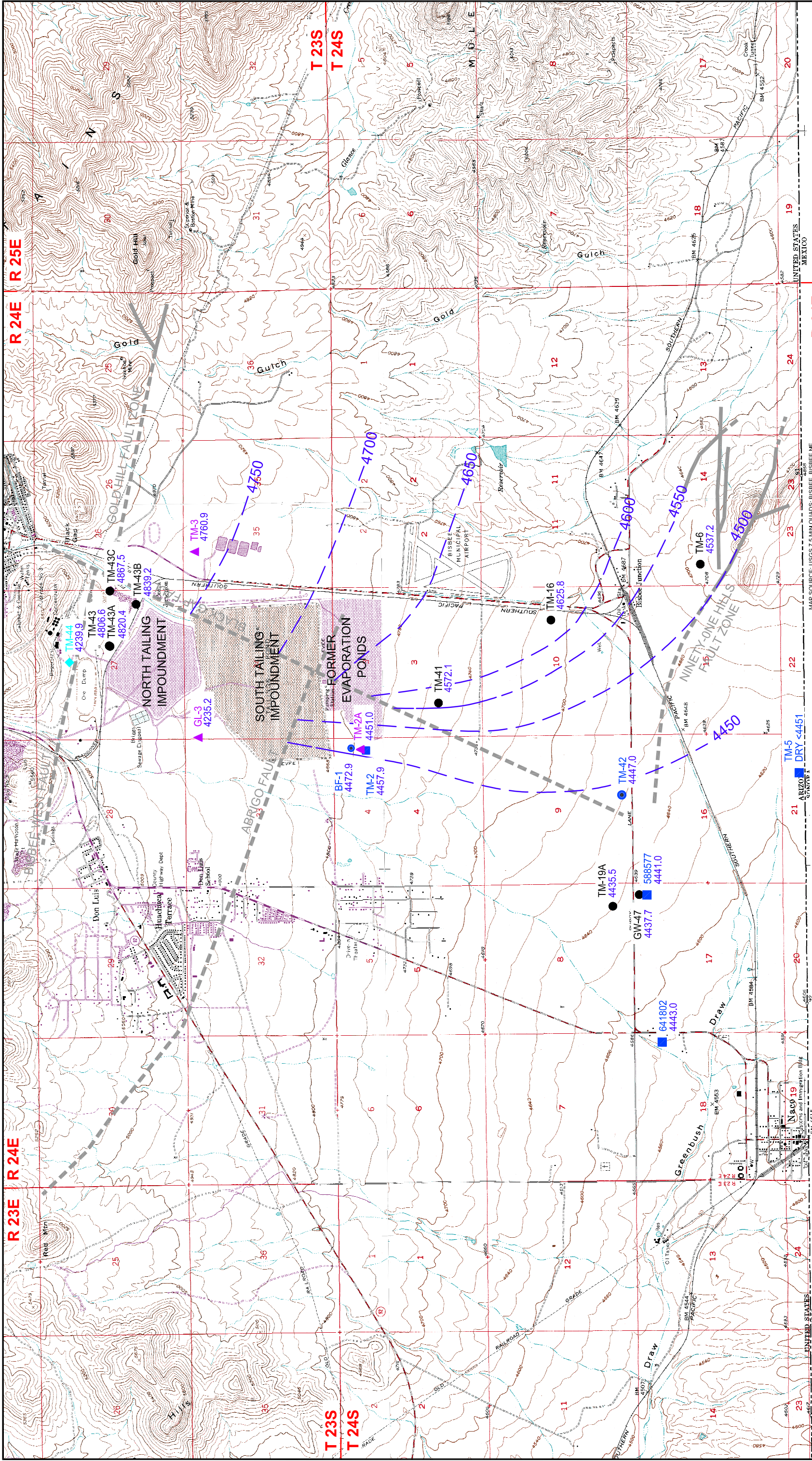
CONCENTRATOR TAILING STORAGE AREA AND VICINITY

BISBEE, ARIZONA

MAP SOURCE: USGS 7.5 MIN QUADS: BISBEE, BISBEE NE, BISBEE SE, AND NACO, ARIZONA. NAD 27 ZONE 12 CENTRAL, METERS

Approved: **KSW** Date: **4/4/07** Revised By: **KSW** Date: **07/17/07** File Name: **8720006A** Figure: **10**

Scale: 0 to 1 MILE / 0 to 6000 FEET / 0 to 2 KILOMETER



MAP SOURCE: USGS 7.5 MIN QUADS: BISBEE, ARIZONA
 BISBEE SE. AND NACO, ARIZONA
 NAD 27 ZONE 12 CENTRAL METERS

EXPLANATION

- BASIN FILL
- MORITA FORMATION
- GLANCE CONGLOMERATE
- PALEOZOIC SEDIMENTS
- MIXED, BASIN FILL & MORITA FORMATION
- TM-1 WELL ID,
- 4443.2 WATER ELEVATION (FT AMSL)
- WATER CONTOUR LINE (DASHED WHERE INFERRED)
- FAULT (DASHED WHERE INFERRED) FROM SET 1998C

WATER LEVEL MAP SEPTEMBER 2005

CONCENTRATOR TAILING STORAGE AREA AND VICINITY

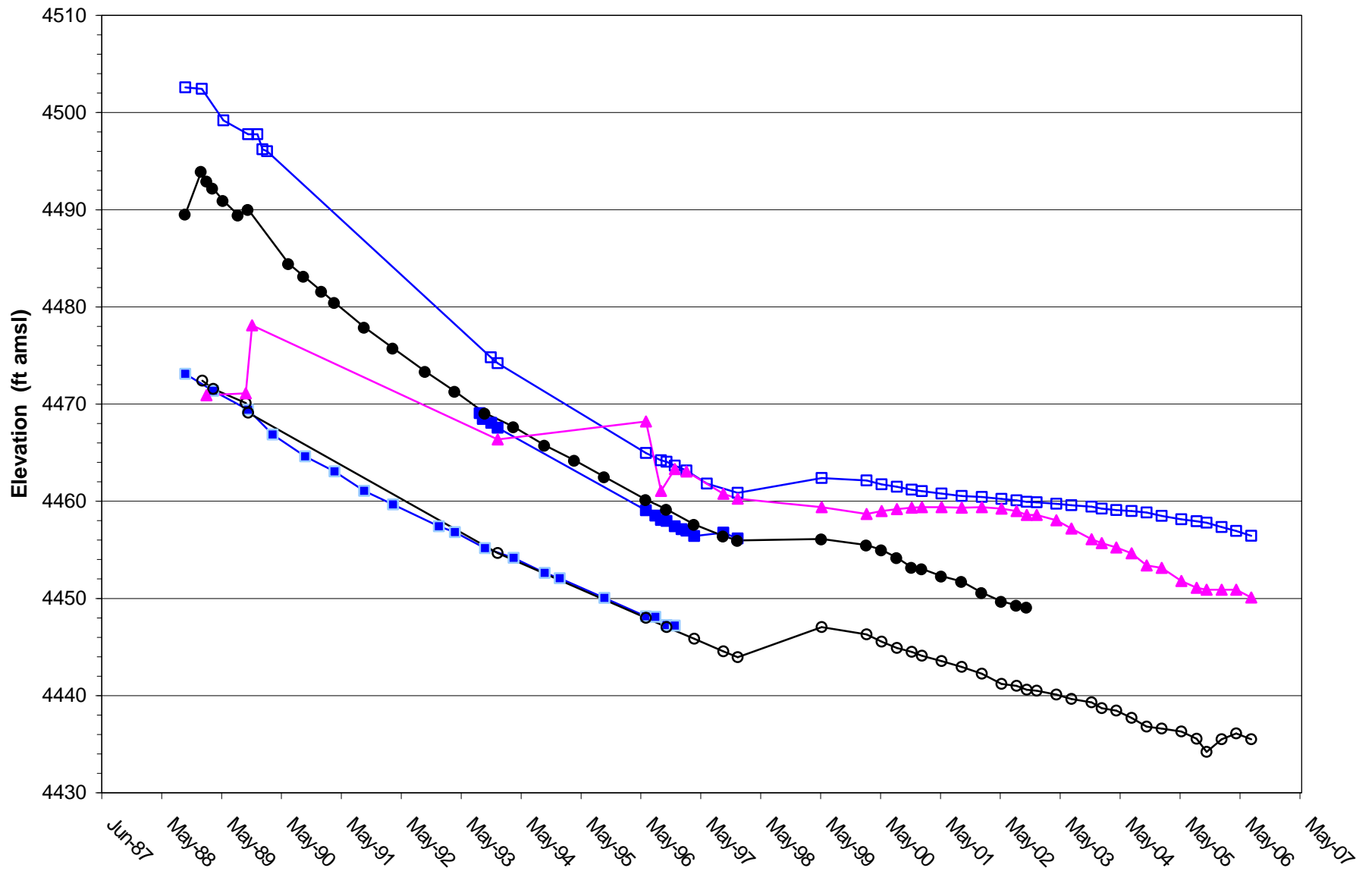
BISBEE, ARIZONA

Approved **KSW** Date **4/4/07** Revised By **KSW** Date **07/17/07** File Name **8720005A** Figure **11**

1 MILE

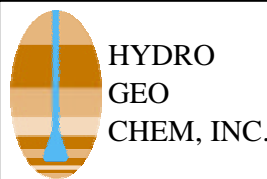
0 1/2 2000 4000 6000 FEET

0 .5 1 2 KILOMETER



EXPLANATION

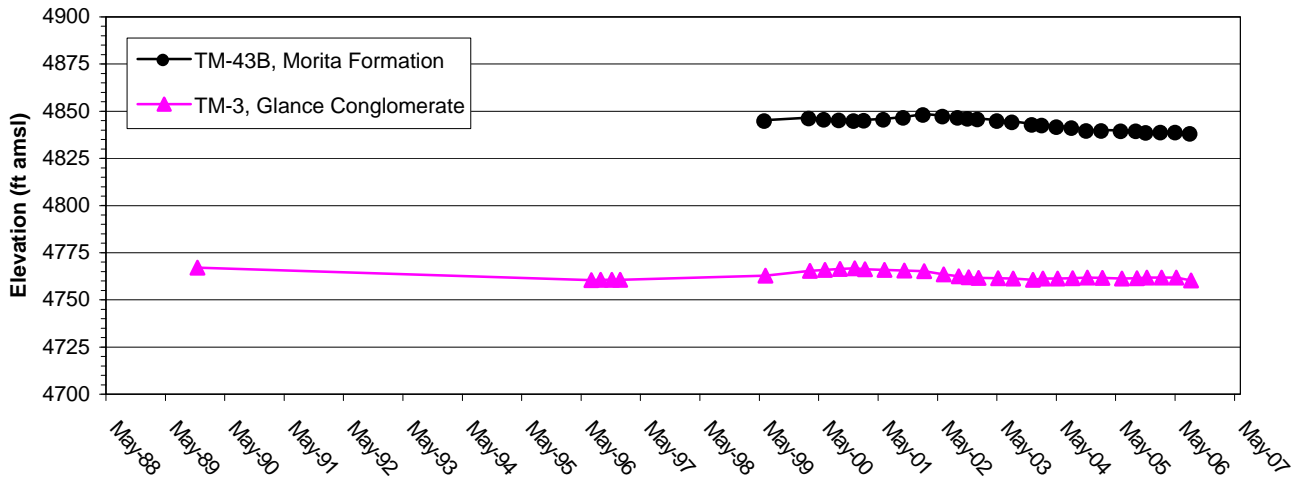
- TM-2, basin fill
- TM-19, basin fill
- BF-2, basin fill
- TM-19A, Morita Formation
- TM-7, Morita Formation
- ▲— TM-2A, Glance Conglomerate



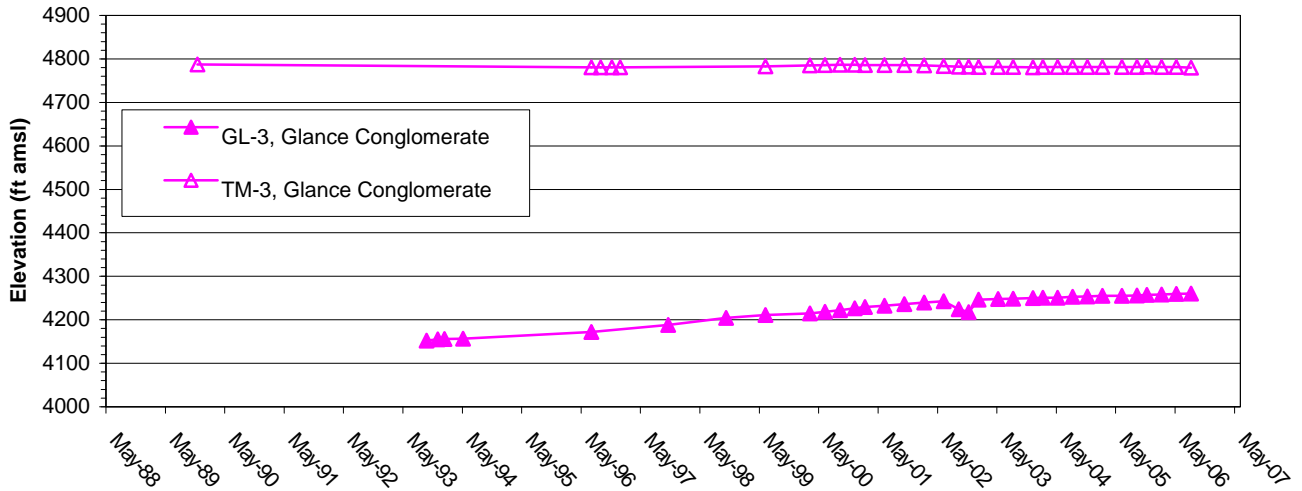
**HYDROGRAPHS FOR TM-2, TM-19, BF-2, TM-7, TM-19A, AND TM-2A
FORMER EVAPORATION AREA MONITOR WELLS**

APPROVED	DATE	FIGURE
KSW	2/21/07	12

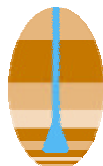
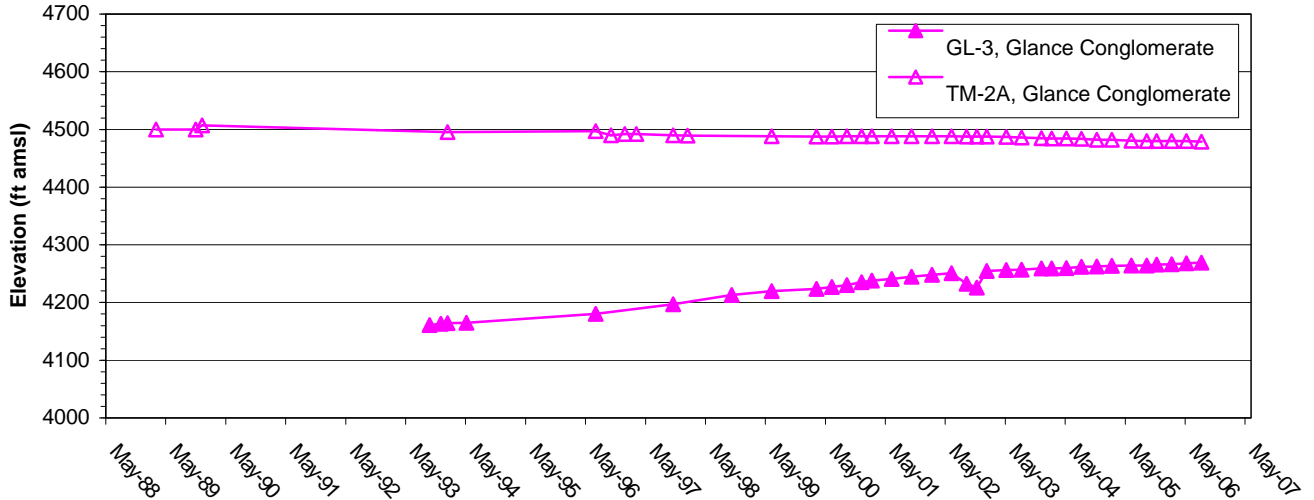
TM-43B AND TM-3, SEPARATED BY THE BLACK GAP FAULT



GL-3 AND TM-3, SEPARATED BY THE BLACK GAP FAULT



GL-3 AND TM-2A, SEPARATED BY THE ABRIGO FAULT



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**HYDROGRAPHS OF MONITORING WELLS
SEPARATED BY THE BLACK GAP AND THE
ABRIGO FAULTS**

APPROVED

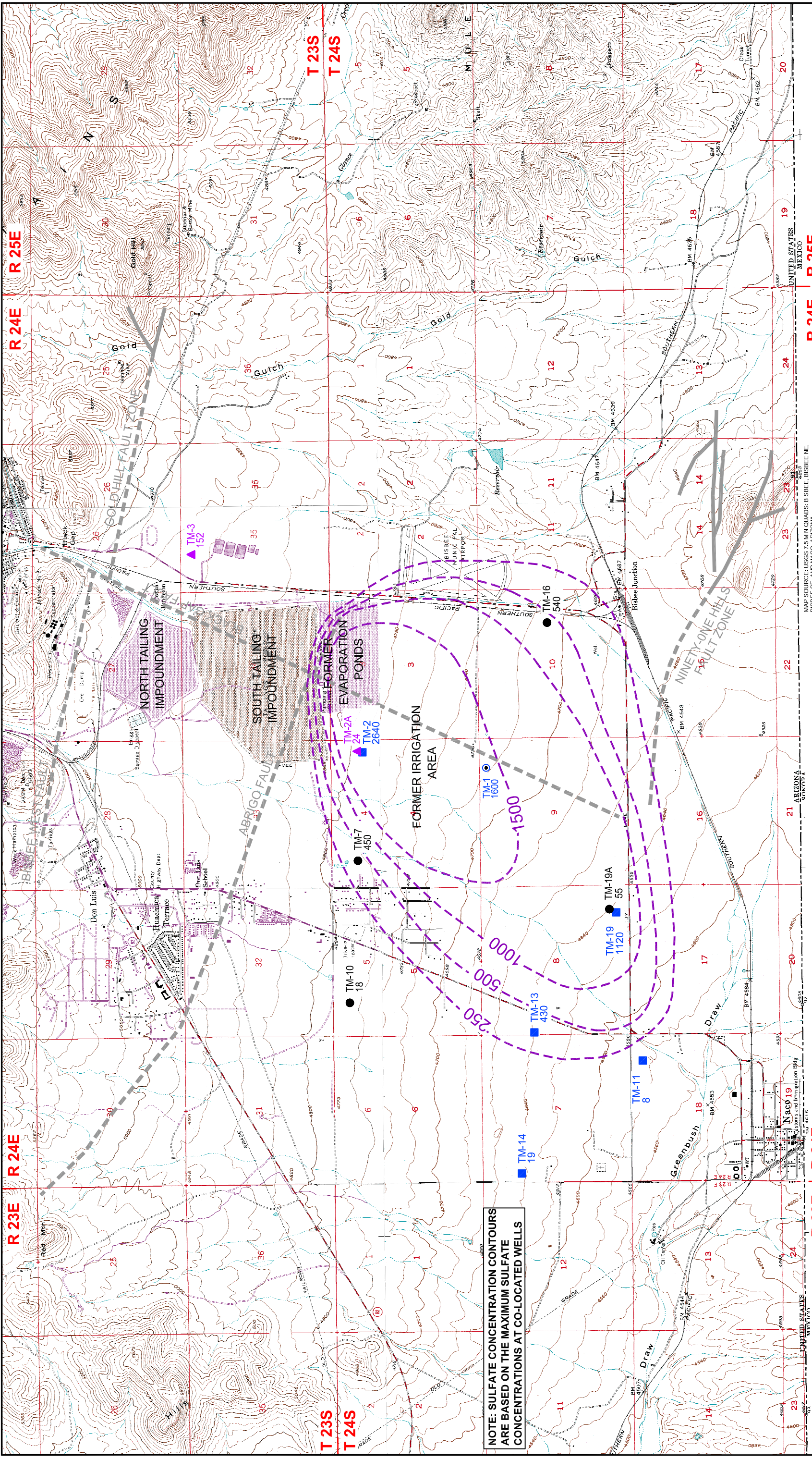
KSW

DATE

04/07/07

FIGURE

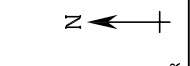
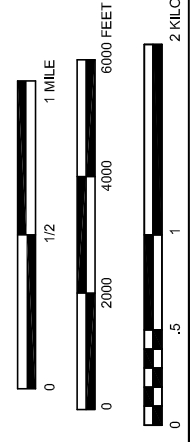
13



NOTE: SULFATE CONCENTRATION CONTOURS ARE BASED ON THE MAXIMUM SULFATE CONCENTRATIONS AT CO-LOCATED WELLS

EXPLANATION

	BASIN FILL
	MORITA FORMATION
	GLANCE CONGLOMERATE
	MIXED, BASIN FILL AND MORITA FORMATION
	Fault (Dashed where inferred) from SET 1998C
	Sulfate concentration isoline
	Well ID: TM-19 1120.0
	Sulfate concentration
	Open symbol denotes abandoned well as of 2007

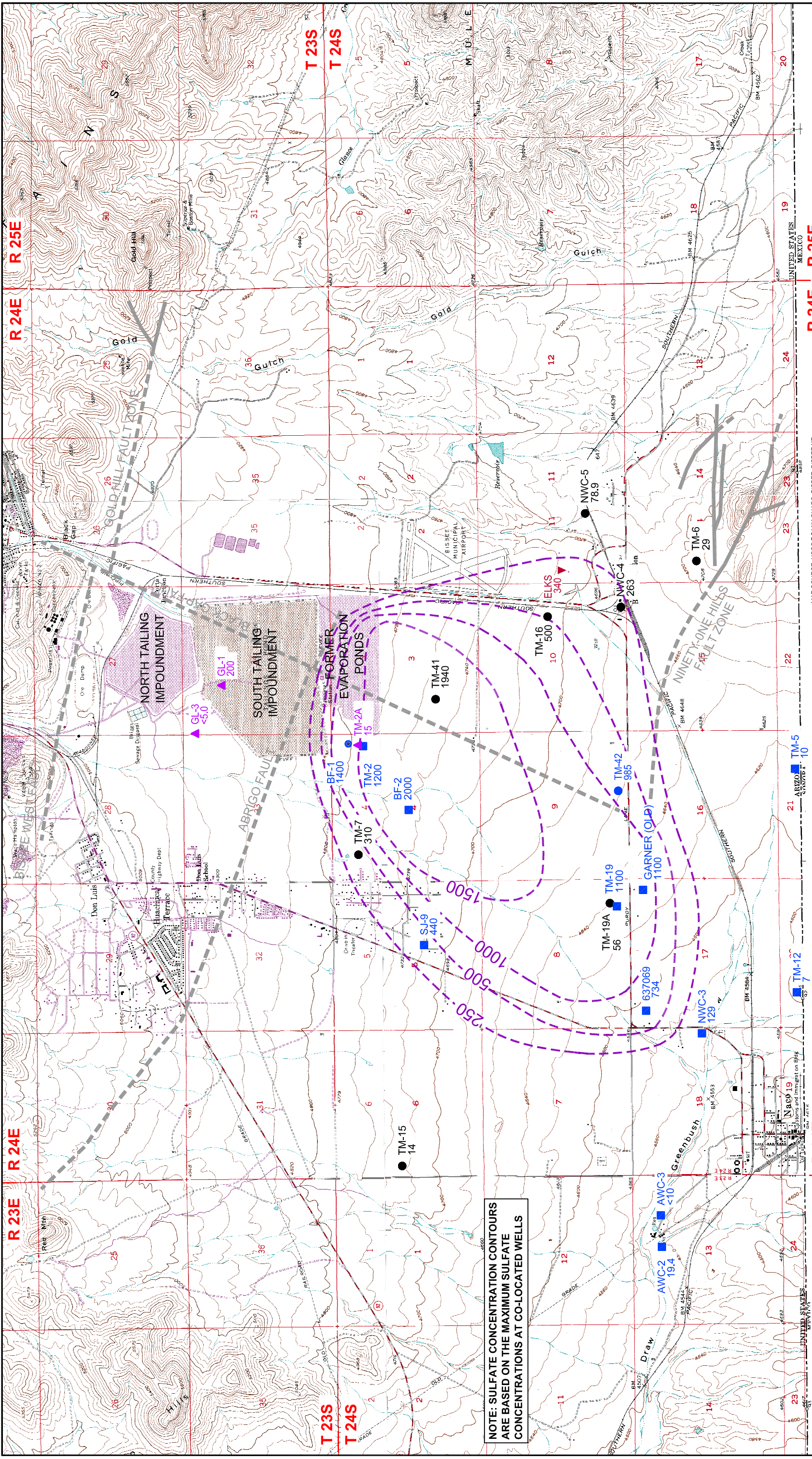


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SULFATE CONCENTRATION MAP - JULY 1989
CONCENTRATOR TAILING STORAGE AREA AND VICINITY
BISBEE, ARIZONA

Approved	JRN	Date	4/4/07	Revised By	KSW	Date	07/17/07	File Name	8720003A	Figure	14
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MAP SOURCE: USGS 7.5 MIN QUADS: BISBEE, BISBEE NE, BISBEE SE AND NAOCO ARIZONA
 NAD 27 ZONE 12 CENTRAL METERS



NOTE: SULFATE CONCENTRATION CONTOURS ARE BASED ON THE MAXIMUM SULFATE CONCENTRATIONS AT CO-LOCATED WELLS

EXPLANATION

- BASIN FILL
- MORITA FORMATION
- GLANCE CONGLOMERATE
- MIXED, BASIN FILL AND MORITA FORMATION
- ▲ UNKNOWN
- TM-12
- WELL ID, SULFATE CONCENTRATION 7.0
- FAULT (DASHED WHERE INFERRED) FROM SET 1998c
- SULFATE CONCENTRATION ISOLINE

1 DATA FOR JULY, 1997

SCALE

1 MILE

0 1/2 2000 4000 6000 FEET

0 .5 1 2 KILOMETER

**HYDRO
GEO
CHEM, INC.**

SULFATE CONCENTRATION MAP - SUMMER 1996

CONCENTRATOR TAILING STORAGE AREA AND VICINITY

BISBEE, ARIZONA

Approved: **JRN**

Revised By: **KSW**

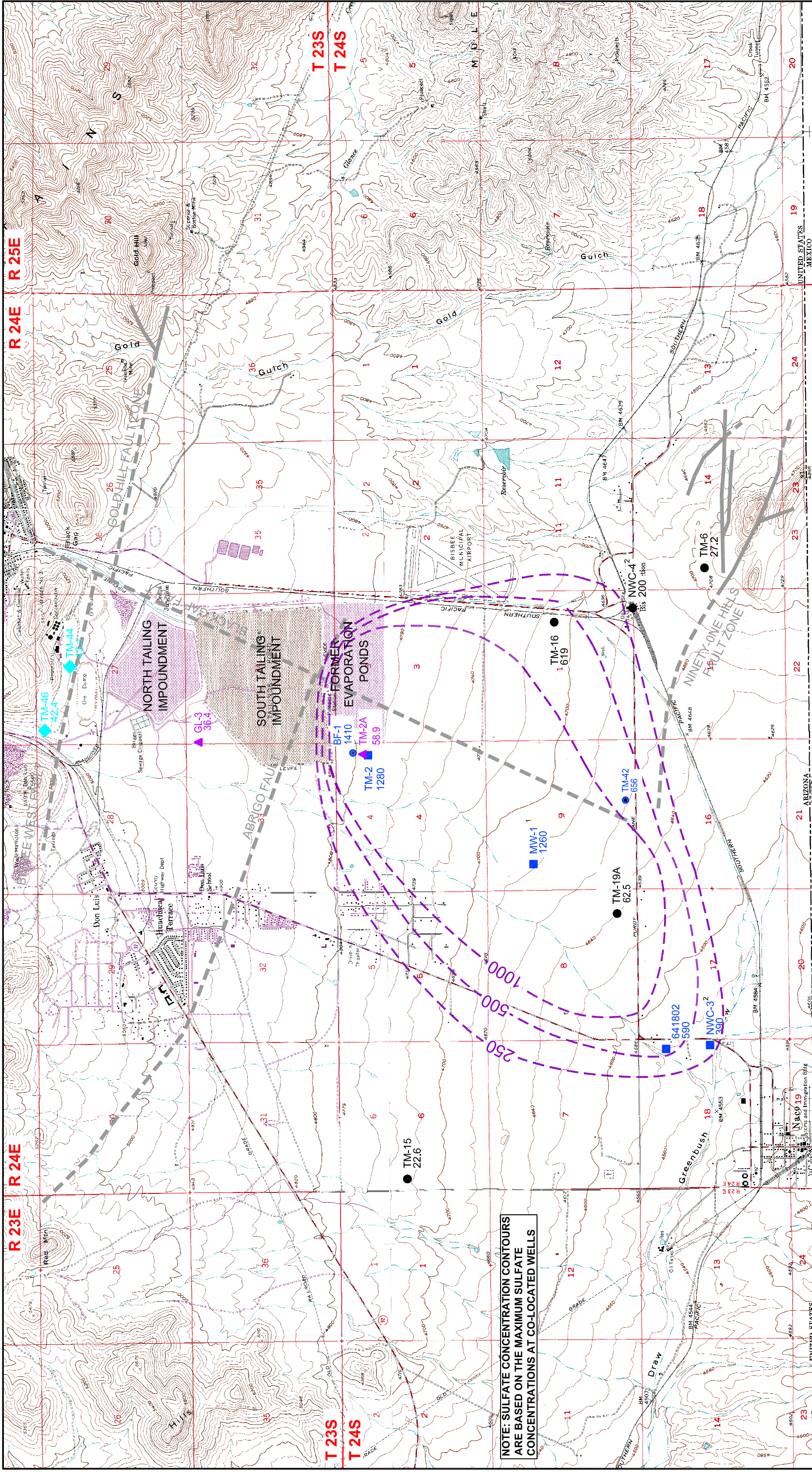
Date: **04/04/07**

Date: **04/04/07**

File Name: **8720004A**

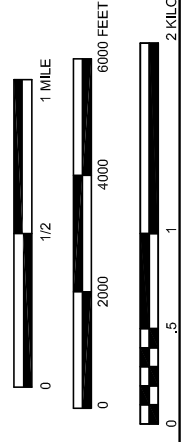
Figure: **15**

MAP SOURCE: USGS 7.5 MINUTE QUADS: BISBEE, BISBEE NE, BISBEE SE, AND NACO, ARIZONA. NAD 27 ZONE 12 CENTRAL METERS.



NOTE: SULFATE CONCENTRATION CONTOURS ARE BASED ON THE MAXIMUM SULFATE CONCENTRATIONS AT CO-LOCATED WELLS

- EXPLANATION**
- BASIN FILL
 - MORITA FORMATION
 - ▲ GLANCE CONGLOMERATE
 - ◆ PALEOZOIC SEDIMENTS
 - MIXED, BASIN FILL AND MORITA FORMATION
 - FAULT (DASHED WHERE INFERRED) FROM SET 1998c
 - SULFATE CONCENTRATION ISOLINE
 - MW-1 1260
 - WELL ID.
 - SULFATE CONCENTRATION



MAP SOURCE: USGS 7.5 MIN QUADS: BISBEE, BISBEE NE, BISBEE SE, AND NACO, ARIZONA
NAD 27 ZONE 12 CENTRAL, METERS



SULFATE CONCENTRATION MAP - AUG. THROUGH NOV. 2005
CONCENTRATOR TAILING STORAGE AREA AND VICINITY
BISBEE, ARIZONA

Approved	JRN	Date	4/4/07	Revised By	KSW	Date	7/20/07	File Name	8720009A	Figure	16
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¹ SULFATE CONCENTRATION FROM APRIL 2006
² MOST RECENT 2005 CONCENTRATION IS PLOTTED