

Property of
Flood Control District of Maricopa County
Please Return to
2801 W. Durango
Phoenix, AZ 85009

**PHASE I
ENVIRONMENTAL SITE ASSESSMENT
AT THE NEW RIVER CHANNEL
IN MARICOPA COUNTY ARIZONA**

Prepared For:

**MARICOPA COUNTY FLOOD CONTROL DISTRICT
2801 W. Durango Street
Phoenix, AZ 85009**

Prepared By:

**CEC/WRA
4041 N. Central Avenue, Suite 1050
Phoenix, AZ 85012-3393**

September 21, 1993
WRA File AR-390-2059.AT1





• Certified Environmental Corporation, Inc. •
• Water Resources Associates, Inc. •

September 21, 1993

Mr. Dave Gardner
Maricopa County Flood Control District
2801 W. Durango Street
Phoenix, AZ 85009

**SUBJECT: PHASE I ENVIRONMENTAL SITE ASSESSMENT AT THE NEW RIVER
CHANNEL PROPERTY LOCATED IN MARICOPA COUNTY, ARIZONA**

Dear Mr. Gardner:

CEC/WRA is pleased to submit our Phase I Environmental Site Assessment (ESA) for the subject property. This report is provided in completion of the scope of work as described in our proposal dated August 23, 1993, and accepted in your letter dated August 24, 1993.

If you have any questions concerning this document, please call either of us at (602) 248-8808. We appreciate the opportunity to complete this important work for the County.

Respectfully submitted,

WATER RESOURCES ASSOCIATES, INC.

Bruce E. Campbell
Environmental Specialist

Alan C. Thomas
Manager
Environmental Assessment Services

Attachment: Phase I ESA Report

cc: Edward D. Ricci, Vice President, WRA
WRA File AR-390-2059.AT1

EXECUTIVE SUMMARY

The Maricopa County Flood Control District has retained Certified Environmental Corporation, Inc./Water Resources Associates, Inc. (CEC/WRA) to perform a Phase I Environmental Site Assessment (ESA) at the New River Channel property, located in Maricopa County, Arizona.

This assessment included a review of selected public environmental and historical records concerning the subject property and adjacent areas. Our assessment also included a visual observation of the site in order to confirm aspects of the records review, and to identify features suggesting the potential presence of hazardous substances on the subject property or the potential for migration of hazardous substances from adjacent land onto the subject property.

This assessment confirmed that the subject property is currently an approximately 1.5 mile long segment of the New River Channel located between Greenway Road and a point approximately 0.25 mile south of Thunderbird Road.

Wildcat Dumping - CEC/WRA personnel observed limited wildcat dumping on the subject property in one area. The area where the dumping was observed was on the eastern bank of Parcel 6, in the approximate center of the site.

CEC/WRA did not observe evidence of chemical or petroleum dumping on the subject property. However the amount of vegetation and dumped debris made it difficult to observe the entire surface area of the ground. CEC/WRA recommends that knowledgeable personnel be utilized to monitor the clean-up of the dumped materials to evaluate whether hazardous materials or petroleum products have been disposed of on the subject property. Sampling and testing may be recommended based on this evaluation.

Our records review and site observations revealed no other significant evidence to suggest the potential presence of hazardous substances on the subject property at this time.

No further investigation of the subject property, other than that described above, is recommended at this time.

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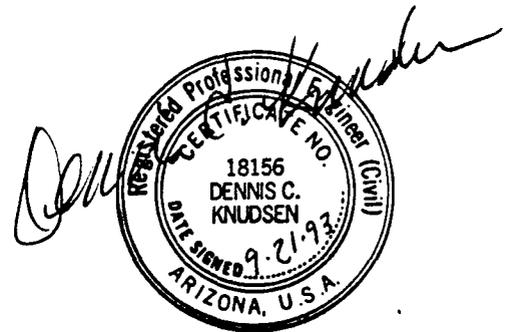
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1.0 INTRODUCTION

1.1 BACKGROUND

The Maricopa County Flood Control District has retained Certified Environmental Corporation, Inc./Water Resources Associates, Inc. (CEC/WRA) to perform a Phase I Environmental Site Assessment (ESA) at the New River Channel, located in Maricopa County, Arizona. This work was performed in accordance with the scope of work outlined in the CEC/WRA proposal dated August 23, 1993, and accepted by the Maricopa County Flood Control District letter dated August 24, 1993.

1.2 SCOPE OF WORK

This assessment included a review of selected public environmental and historical records concerning the subject property and adjacent areas. Our assessment also included a visual observation of the site in order to confirm aspects of the records review and to identify features suggesting the potential presence of hazardous substances on the subject property or the potential for migration of hazardous substances from adjacent land onto the subject property.

1.3 LIMITATIONS

The conclusions presented herein are based on CEC/WRA's interpretation of selected available data. This ESA does not include an evaluation of occupational health and safety hazards. CEC/WRA is not responsible for the accuracy of data obtained from officials of regulatory agencies nor for discrepancies between our conclusions and future activities at the site which may result in conditions not detected during this investigation. Our interpretations are based upon the review of selected public records and observations of specific field conditions. It should also be recognized that CEC/WRA's work was done in accordance with our understanding of the regulatory standards which existed at the time the work was performed. The presence, nature, or extent of potential contamination on the subject property can only be conclusively determined through appropriate sampling and analysis. No warranties are expressed or implied concerning potential contaminants or environmental media not addressed through sampling and analysis.

2.0 SITE INFORMATION

2.1 LOCATION

The subject property is located west of the State Route 101 Freeway between Greenway Road and a point approximately one quarter of a mile south of Thunderbird Road, in Maricopa County, Arizona. A site location map is provided as Figure 1. The subject property is more generally located in Sections 10 and 15 of Township 3 North, Range 1 East of the Gila and Salt River Baseline and Meridian, Maricopa County, Arizona.

A site diagram based upon field observations is included as Figure 2. Plat maps of the subject property are included as Appendix A.

2.2 SITE DESCRIPTION

CEC/WRA personnel visited the subject property on September 2 and 9, 1993 in order to confirm aspects of the records review and to visually identify features suggesting the potential presence of hazardous substances.

The subject property consisted of an approximately 1.5 mile long section of the New River Channel. The total area of the property is approximately 64 acres and it is divided by tax parcel number into seven distinct parcels. (See Figure 2) The subject property and riverbed to the north and south has been banked and channelized to retain and direct stormwater runoff. The channel accepts runoff from surrounding properties along and to the north, and from Skunk Creek, which is also channelized and intersects the site at the south end of Parcel 1.

Dumped refuse was observed on the east side of Parcel 6. This refuse consisted of household trash, lumber, landscaping debris, small containers and at least one empty 55 gallon drum (See Photograph Nos. 7-12) No staining or evidence of liquids were observed.

A small oil stain was observed on the southwest corner of Parcel 5. (See Photograph No. 14) This stain appears to be from leakage of hydraulic fluid from a vehicle.

No structures were present on the subject property at the time of the survey. Approximately six vehicle tires were observed in various areas of the subject property. It is likely that these tires were deposited by recent flooding.

3.0 ADJACENT LAND USE

Properties adjacent to the subject property generally consist of agricultural and light commercial to the east, and developing residential to the west. The property to the north and south consists of the continuation of the New River Channel.

4.0 REGIONAL SETTING

4.1 TOPOGRAPHY AND DRAINAGE

CEC/WRA reviewed selected United States Geological Survey (USGS) topographic maps for the Glendale and El Mirage Quadrangles, dated 1957 and photo revised in 1982 to confirm field observations of topography and drainage on the subject property. According to the USGS Maps, the site lies at approximately 1,175 feet above mean sea level (msl) at the north end and approximately 1,150 feet above msl at the south end.

The subject property is primarily flat with a gradual slope to the southwest. Drainage on the subject property is improved to retain and channel stormwater toward the southwest.

4.2 GEOLOGY AND HYDROGEOLOGY

The subject property lies in the Salt River Valley, a broad alluvial basin within the Basin and Range physiographic province, which includes southern Arizona. The Basin and Range province is characterized by a series of northwest trending fault-bounded mountain ranges separated by alluvial valleys.

The Salt River Valley is surrounded by mountains composed primarily of granite, metamorphic and volcanic rocks, and minor amounts of sedimentary rocks. The valley floor is underlain by thick semi-consolidated basin-fill sediments (Brown and Pool, 1989). Shallow subsurface is comprised of quaternary active alluvium deposits consisting of sand, gravel, and silt.

Review of the Arizona Department of Water Resources (ADWR) Hydrologic Map Series, Report No. 12, indicates that ground water below the subject property occurs at approximately 300 feet below ground surface (bgs). The direction of general ground-water flow in the area is toward the northwest.

4.3 WATER QUALITY

Potential sources of information concerning ground-water quality in the area of the subject property include the Arizona Department of Environmental Quality (ADEQ) Annual Report on Groundwater

Quality Sampling Results, Salt River Project (SRP) Annual Water Quality Reports, and reports of various Superfund, WQARF or other site investigations in the area of the subject property.

No data was available through public sources to provide specific information concerning the quality of ground water below the subject property.

ADEQ Water-Quality Database - The ADEQ water-quality report did not provide monitoring data for wells within 2 miles of the subject property.

SRP Wells - No SRP wells were observed to be located within a 0.50-mile radius of the subject property.

4.4 METEOROLOGY

The Salt River Valley lies in the northeastern part of the Sonoran desert, characterized by hot summers and cool winters. The average daily maximum temperature is 105° F in July and 65° F in December, while daily minimum temperatures average 80° F in July and 39° F in December. Annual rainfall averages approximately 7.5 inches on the valley floor, with most of the precipitation occurring during two rainy seasons. In winter, occasional storm systems moving inland from the Pacific Ocean result in widespread rainfall of light to moderate intensity. Summer storm events are typically caused by warm air masses moving northward from the Gulf of Mexico and the west coast of Mexico. Summer rainfall events are generally more localized and highly variable in intensity. Potential annual evapotranspiration has been measured at 72 inches of water and thus may be approximately ten times annual rainfall in the Salt River Valley (Brown and Pool, 1989).

5.0 HISTORICAL LAND USE

5.1 HISTORICAL AERIAL PHOTOGRAPHS

Selected aerial photographs available from Landiscor Aerial Photography were reviewed for an evaluation of historical conditions on the subject and adjacent properties. The photo sequence for the subject property begins in 1962. A summary of our observations is provided below.

1962 - This photograph shows the subject property as river channel surrounded by agricultural land. Thunderbird Road is shown as unpaved. Sun City is under construction to the west.

1/2/64, 1/20/65 - These photographs show no significant changes to the subject property or surrounding area from the 1962 photograph.

1/3/67 - This photograph shows no change to the subject property but a small sand and rock processing operation is shown to the southeast of Thunderbird Road and the River Channel.

1/2/68, 3/8/69 - These photographs show no significant change to the subject property or surrounding area from the 1967 photograph.

1/2/70 - This photograph shows a borrow pit located in the center of Parcel 4 of the site. No other changes from the 1969 photograph are shown.

1/5/71 - This photograph shows significant channel grading along the entire length of the property and the river channel to the north and south. No other changes from the 1970 photograph are shown.

1/3/72, 1/11/73 - This photograph shows the east side of the channel from the south boundary to the confluence with Skunk Creek banked. The previously mentioned borrow operations have ceased. No other significant changes from the 1971 photograph are shown.

1/3/74, 12/30/75 - These photographs show a borrow operation in progress on Parcel 1. No other changes from the 1973 photograph are shown.

12/28/76, 12/15/79 - These photographs show no significant changes to the subject property or surrounding areas from the 1975 photo.

12/15/80 - This photograph shows the construction of the Thunderbird Road bridge over the subject property and the development of the Desert Shores community to the west.

12/20/81, 12/31/82, 12/7/83 - These photographs show no significant change from the 1980 photograph.

12/28/85 - This photograph shows dumping of debris and landfill material evident east of Parcels 1 and 7 of the subject property. Some dumped material is also evident on the east side of Parcel 6.

12/30/86 - This photograph shows the channelization of the subject property to its present configuration. No other significant changes are shown.

12/27/87, 12/30/88, 12/31/90, 12/26/91, 1/4/93 - These photographs show further development in the surrounding area but no changes to the subject property from the 1986 photo.

5.2 CITY DIRECTORIES

No structures were historically or are currently present on the subject property. Therefore, a city directory search was not performed.

5.3 U.S. GEOLOGICAL SURVEY TOPOGRAPHIC MAPS

CEC/WRA reviewed the USGS topographic map, Glendale and El Mirage Quadrangles, dated 1957 and photo revised in 1982, to evaluate evidence of historical development on the subject property. This review indicated that the subject property is located in a developing area of Maricopa County between the municipalities of Glendale and Peoria.

6.0 REGULATORY RECORDS REVIEW

6.1 U.S. ENVIRONMENTAL PROTECTION AGENCY

CERCLA Federal Superfund Sites - Review of the United States Environmental Protection Agency (USEPA) "Superfund" Program National Priorities List (NPL) of sites in Arizona indicates that the subject property is not located within a 2-mile radius of any federal Superfund sites.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) - This list includes sites which have been reported to EPA as candidates for investigation under the federal Superfund program. No CERCLIS sites were found within a 0.50-mile radius of the subject property.

RCRA Database - The Resource Conservation and Recovery Act (RCRA) database list includes facilities that are involved in the generation, transport, treatment, or disposal of hazardous waste and have been assigned an EPA identification number. Inclusion of a facility on this list does not necessarily mean that the site is contaminated or causing contamination. Review of the RCRA database indicated one registered RCRA facility within a 0.50-mile radius of the subject property. This facility is Warren Paint and Body Shop - Thunderbird located one eighth of a mile east of the subject property at 8708 West Thunderbird Road. Warren is listed as a small quantity generator with the EPA ID # of AZD982512303.

SARA Title III Notifiers - The Superfund Reauthorization and Amendments Act (SARA) requires facilities which use, handle or store significant quantities of hazardous substances to prepare plans for potential emergencies involving those substances. SARA also requires the facilities to notify the public concerning these plans and to register with the USEPA. Review of the USEPA Toxic Release Inventory for 1987 through 1990, a list of registered SARA Title III notifiers, indicated that no facilities occurred within a 0.50-mile radius of the subject property.

Facility Index System - Review of the USEPA Facility Index System (FINDS), an inventory of facilities regulated by the EPA, indicated that there are no FINDS sites located within a 0.50-mile radius of the subject property.

Emergency Response Notification System - Review of the USEPA Emergency Response Notification System (ERNS), which lists hazardous materials spills, threats, fires, and incidents, indicates that no reported ERNS incidents have occurred on the subject property.

6.2 ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Underground Storage Tanks - According to the ADEQ list of registered underground storage tanks (UST), two registered UST facilities are located on or within a 0.50-mile radius of the subject property. The ADEQ information concerning these registered tanks is listed below:

ADEQ ID#	Facility Name/Address	No. USTs	Status	Approximate Location Relative to Site
0-005676	Peoria Chevron 8246-8254 W. Thunderbird	3	Removed	*1/8 mile east
0-003178	Thunderbird Road 8736 W. Thunderbird	1	current	1/8 mile east

* The address designation for Peoria Chevron is incorrect. Review of ADEQ records indicated that the actual location of the site is 8856 West Thunderbird Road, approximately one-eighth of a mile east of the site. No explanation was found for the address discrepancy.

Review of the ADEQ list of leaking underground storage tanks (LUST) indicates that one reported LUST incident has occurred within a 0.50-mile radius of the subject property. Information regarding this incident is listed below.

ADEQ Case #	Facility Name Address	Date Requested	ADEQ Status	Approximate location relative to site
5676-4715.1240	Peoria Chevron	4/24/90	open	1/8 mile east

As is noted above, the actual location of Peoria chevron is one-eighth of a mile east of the subject site on the north side of Thunderbird Road. Review of the ADEQ LUST file indicated that three 10,000 gallon USTs were excavated and removed from the site in April of 1990. Although all samples obtained from the tank pit were below the ADEQ action level of 100 mg/kg, two samples obtained from shallow subsurface soils under former dispenser islands were well above the action level (7,500 and 860 mg/kg).

Approximately 200 cubic yards of contaminated soil was subsequently removed from the site in November of 1990 for bioremediation at a facility in southeast Phoenix. The removed soil was replaced with clean backfill. The ADEQ Hydrology department recommended closure of the case in December 1992 and the file has been transferred to the Corrective Actions Unit for facility compliance review.

Open/Closed Landfills - Review of ADEQ records indicates that no reported open or closed municipal solid waste landfills (MSWLF) or rubbish landfills are located within a 2-mile radius of the subject property.

Water Quality Assurance Revolving Fund - Review of the ADEQ project list for the Water Quality Assurance Revolving Fund (WQARF) indicates that the subject property is not located within a 2-mile radius of a WQARF study area.

Arizona CERCLA Information and Data System - The ADEQ list entitled Arizona CERCLA Information and DATA System (ACIDS) lists sites which have been reported to, or are being investigated by ADEQ as having possible contamination. No listed ACIDS sites are located within a 0.50-mile radius of the subject property.

Registered Dry Wells - State rules require owners to register all dry wells on their property with ADEQ. The Water Permits Unit of ADEQ maintains a list of all dry wells that have been registered with the state to date. According to ADEQ records, there are ten registered dry wells within a 0.50-mile radius of the subject property. No dry wells are registered at the subject property. Specific information concerning the registered drywells is listed below.

Facility	Address	Number of Drywells	Approximate Location Relative to Site
Brammer Fait Partnership	8708 W. Thunderbird	6	1/8 mile east
Freedom Court	13215 N. 94th Drive	2	1/4 mile west
Thunderbird Prof. Center	13760 N. 93rd Avenue	2	1/4 mile west

ADEQ Ground Water Quality Database - A review of the 1990 Annual Report on the ADEQ Groundwater Quality Database revealed no monitoring data for wells on or within a 0.50-mile radius of the subject property.

Arizona Hazardous Waste Treatment, Storage and Disposal Facilities - Based on a review of the RCRA database, no listed TSDF facilities are located within a 0.50-mile radius of the subject property.

RCRA Compliance Log - The RCRA Compliance Log, maintained by ADEQ, lists facilities which have been reported to be in violation of RCRA hazardous waste regulations. Review of the log indicated no listed facilities within a 0.50-mile radius of the subject property.

6.3 ARIZONA DEPARTMENT OF WATER RESOURCES

According to ADWR, there are 19 registered wells located within a 0.50-mile radius of the subject property. Specific information concerning the wells is listed below.

Location	Owner	Registration Number	Depth (ft)	Diameter (in)	Well Use	Drill Date	Proximity to Subject Property
A(3-1)10 AAA	MCFCFD	WR 520835	120	6	U	4/13/88	1/8 mile northeast
A(3-1)10 ADD	Lutheran Church	WR 628998	368	6	W	NL	1/8 mile east
A(3-1)10 BBB	Sun Harbor Comm.	WR 617953	1,200	20	W	1949	1/2 mile northwest
A(3-1)10 BCB	Berco Corp.	WR 617954	610	NL	W	1949	1/2 mile west
A(3-1)10 CDC	Willis Trust	WR 632258	488	8	W	1975	1/8 mile east
A(3-1)11 C	Key	WR 638238	NL	8	W	NL	1/2 mile east
A(3-1)11 CB	Bass	WR 636821	500	6	W	NL	1/2 mile east
A(3-1)11 CCB	Lydic	WR 608031	326	6	W	1953	1/2 mile east
A(3-1)15 AD	Burns	WR 636298	NL	NL	W	NL	1/8 mile east
A(3-1)15 CD	Ehrgood	WR 632221	380	6	W	1929	1/2 mile south
A(3-1)16 ABA	Plaza II	WR 608030	702	20	W	1951	1/4 mile west
A(3-1)2 BCC	Johnson	NL	800	20	W	1956	1/2 mile north
A(3-1)2 CA	Granson	NL	210	NL	W	1946	1/2 mile north
A(3-1)3 CD	Bodine	NL	428	20	A	1938	1/4 mile north
A(3-1)3 DA	Bodine	NL	450	20	A	1937	1/4 mile northeast
A(3-1)10 CDD	Pease	NL	488	8	D	1975	1/8 mile east
A(3-1)16 ABA	Lydic	NL	200	18	A	1916	1/4 mile west
A(3-1)16 ABA	Lydic	NL	702	20	A	1951	1/4 mile west
A(3-1)16 DAA	NL	333603112151701	NL	NL	P	NL	1/4 mile south

NOTES: NL = Not Listed A = Agriculture B = Utility W = Water Production
D = Domestic E = Municipal F = Industrial J = Stock
K = Irrigation M = Monitor N = Test
U = Abandoned

6.4 UTILITY RECORDS

Electrical Power in the vicinity of the subject property is provided by Salt River Project (SRP). During the on-site survey, no transformers were observed on the subject property.

7.0 CONCLUSIONS AND RECOMMENDATIONS

This assessment confirmed that the subject property is currently a 1.5 mile length of channelized riverbed located west of 83rd Avenue between Greenway Road and a point approximately 0.25 miles south of Thunderbird Road.

Based upon the results of our records search and site observations, CEC/WRA has developed the following conclusions and recommendations regarding potential environmental hazards on or near the subject property.

Wildcat Dumping - CEC/WRA personnel observed limited wildcat dumping on the subject property in one area. The area where the most significant amount of dumping was observed was on the eastern bank of Parcel 6, in the approximate center of the site.

CEC/WRA did not observe evidence of chemical or petroleum dumping on the subject property, however the amount of vegetation and dumped debris made it difficult to observe the entire surface area of the ground. CEC/WRA recommends that knowledgeable personnel be utilized to monitor the clean-up of the dumped materials to attempt to evaluate whether hazardous materials or petroleum products have been disposed of on the subject property. Sampling and testing may be recommended based on this evaluation.

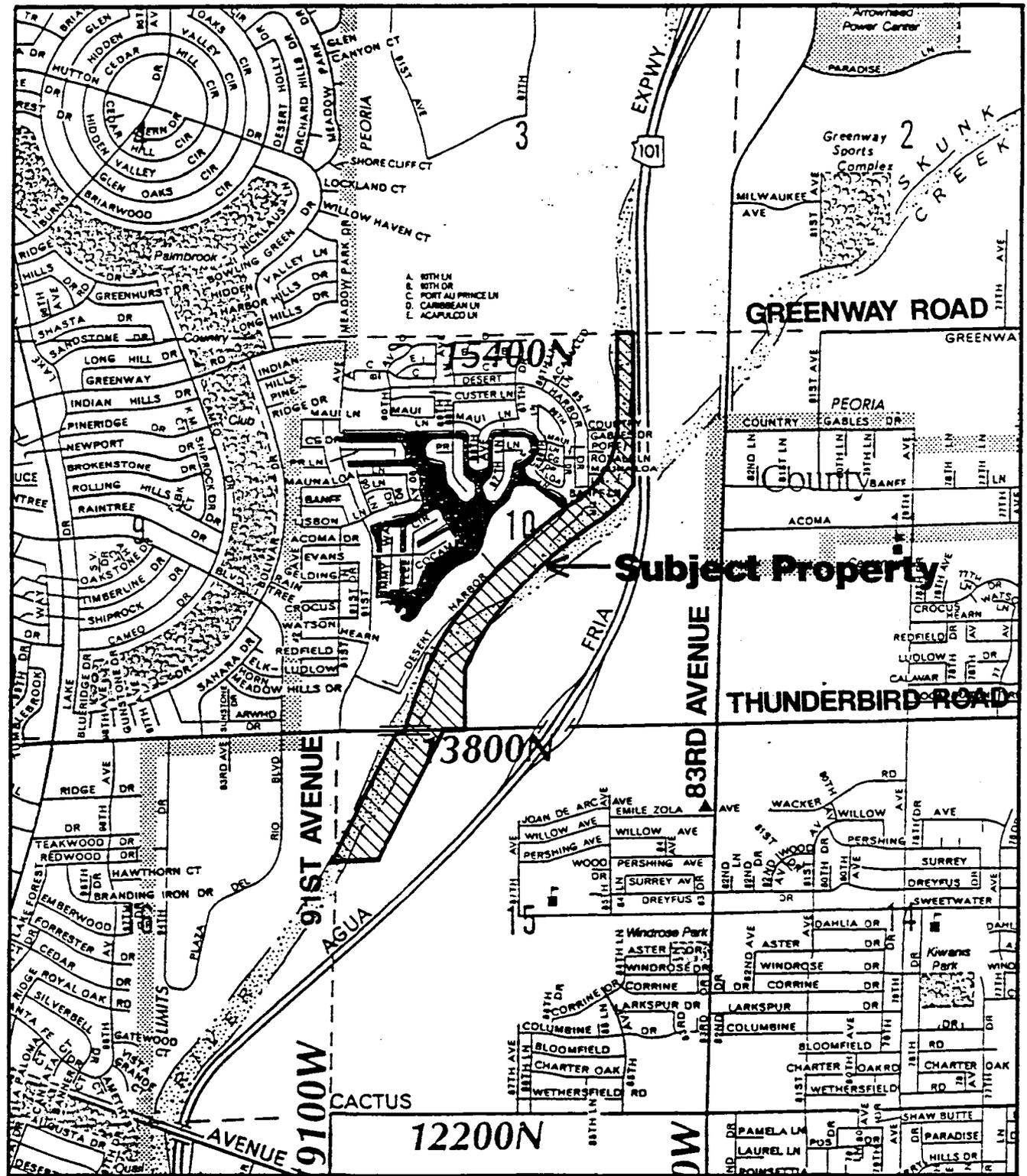
Our records review and site observations revealed no other significant evidence to suggest the potential presence of hazardous substances on the subject property at this time.

No further investigation of the subject property, other than that described above, is recommended at this time.

8.0 REFERENCES

- ADEQ. 1993. List of Active Landfills. Arizona Department of Environmental Quality. February 1993.
- ADEQ. 1993. closed Solid Waste Landfills and Dumps. Arizona Department of Environmental Quality, February 1993.
- Aerial Photography, Landiscor, 1962 - 1993.
- Arizona CERCLA Information and Data System, Arizona Department of Environmental Quality, Office of Waste Programs, September 30, 1991.
- Brown, James G. and D. R. Pool. 1989. Hydrogeology of the western part of the Salt River Valley area, Maricopa County, Arizona. U.S. Geological Survey.
- CERCLIS. 1992. Arizona List-8, Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS). October 26, 1992.
- Dry Well Registration List, Arizona Department of Environmental Quality, September 7, 1990.
- Emergency Response Notification System (ERNS), U.S. Environmental Protection Agency, January 2, 1993.
- Facility Index System (FINDS) Database, U.S. Environmental Protection Agency, June 17, 1993.
- Leaking Underground Storage Tank (LUST) List, Arizona Department of Environmental Quality, October 19, 1991.
- RCRA Compliance Log, Arizona Department of Environmental Quality, October 6, 1991.
- Resource Conservation Recovery Act (RCRA) Database, Arizona Department of Environmental Quality, October 6, 1991.
- State Underground Storage Tank (UST) List, Arizona Department of Environmental Quality, October 1, 1991.
- Toxic Release Inventory (TRI), U.S. Environmental Protection Agency, 1987-1990.
- Water Quality Assurance Revolving Fund (WQARF) Sites, Arizona Department of Environmental Quality, May 1990.
- Well Registry, Arizona Department of Water Resources, August 1989.

FIGURES



Water Resources Associates, Inc.

A Subsidiary of Yellowstone Environmental Services, Inc.

PROJECT NO. AR390-2059

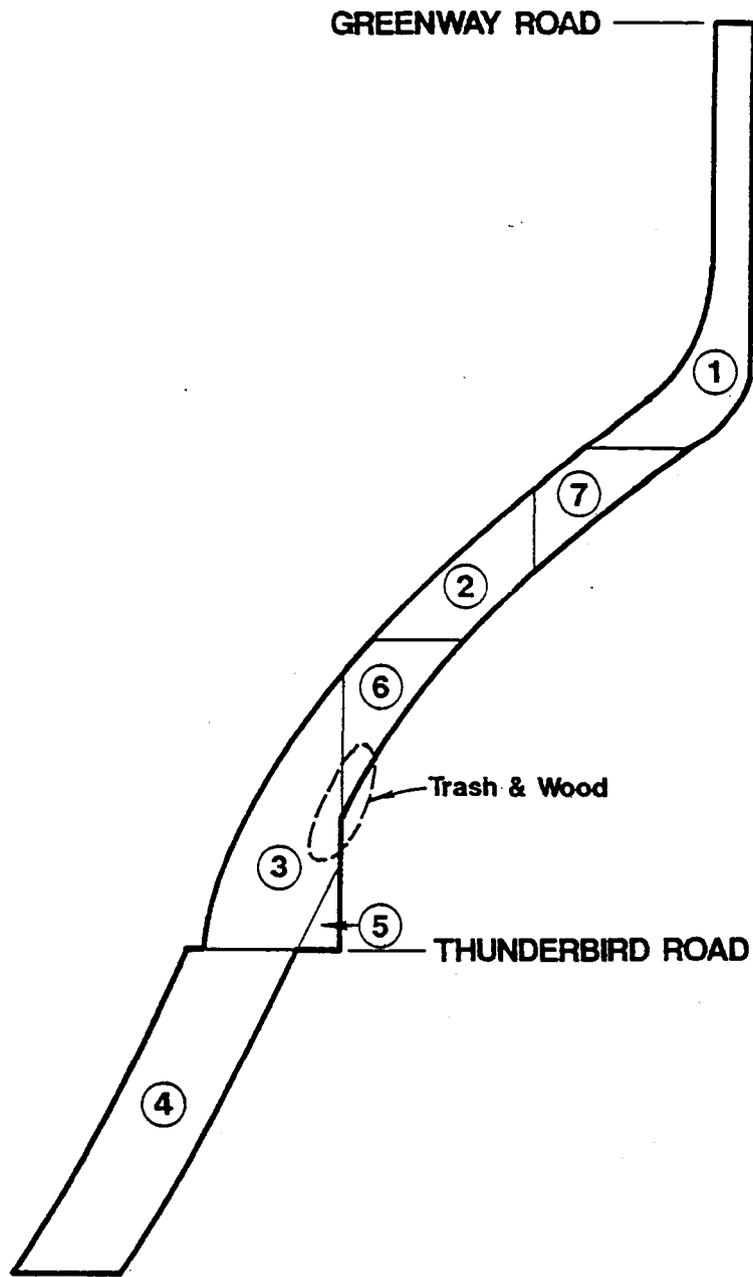
DRAWN BY KMA

DATE 9/21/93

CHECKED BY BEC

VICINITY MAP

FIGURE 1




 NORTH
 NOT TO SCALE

Water Resources Associates, Inc. A Subsidiary of Yellowstone Environmental Services, Inc.	SITE MAP	FIGURE 2
PROJECT NO. AR390-2059	DRAWN BY KMA	
DATE 9/21/93	CHECKED BY BEC	

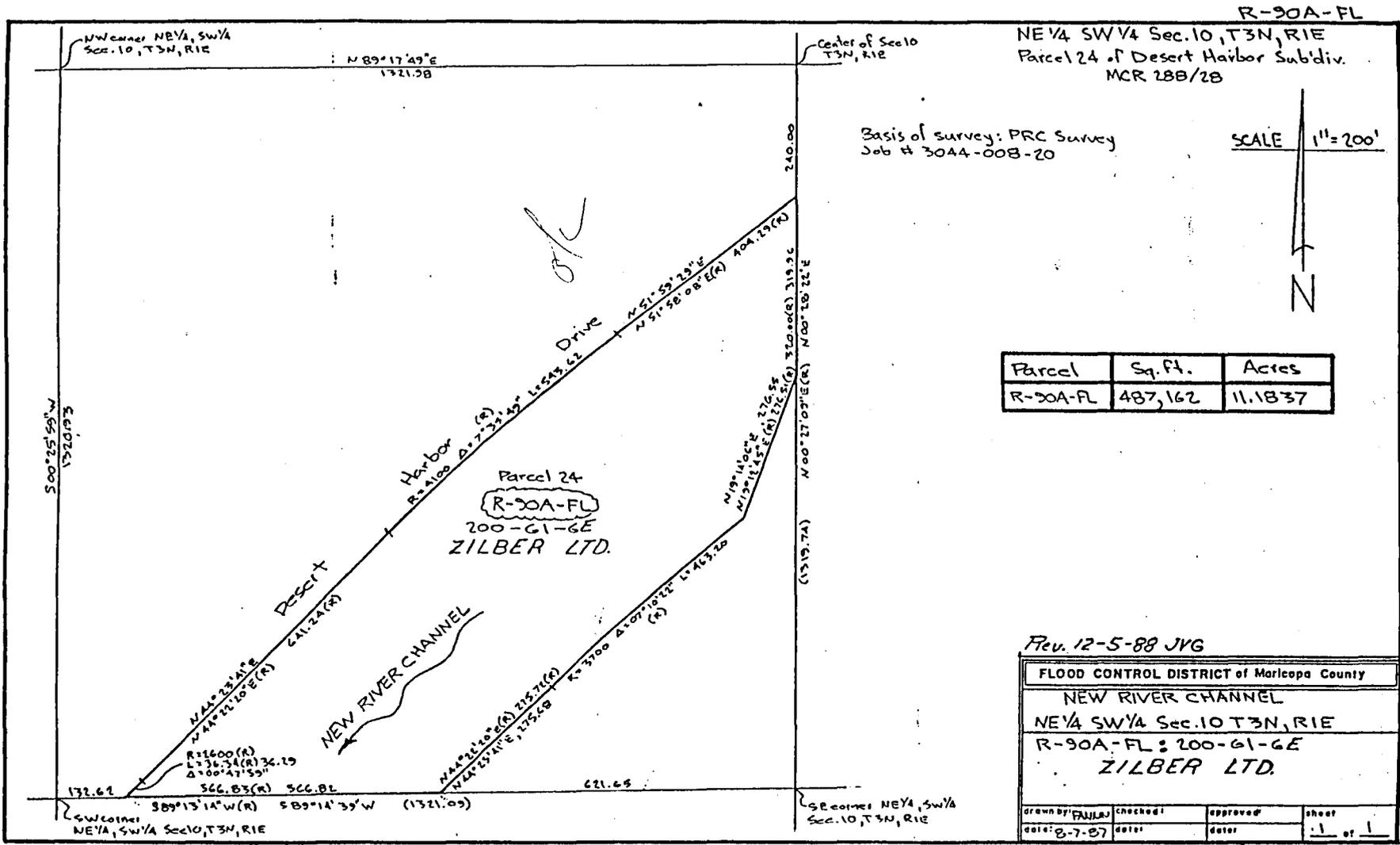
APPENDICES

APPENDIX A

Plat Maps

93 498400

2



93-498400

R-87-FL

N89°14'30"E 1321.09

NW COR
SW4SW4

NE COR
SW4SW4

3

SCALE 1" = 200'

N00°23'27"E 1322.13
91ST AVENUE

DESERT HARBOR DR.
R=2500 L=613.67

NEW RIVER CHANNEL

S25°35'17"W(R)
S25°36'28"W
235.81

S18°35'32"W(R)
S18°36'43"W
394.95

PARCEL 23
DESERT HARBOR
MCR 288-28

R-87-FL
ZILBER LTD.

(446.54)
(446.51) S25°35'17"W(R)
S25°36'28"W
385.10

770.82
S00°25'50"W (1320.93)
S00°24'45"W(R)

REFERENCE:
BROOKS HERSEY & ASSOC.
RESULTS OF SURVEY
JOB NO.167-02-TM-05 MAY 1986

SQ.FT. ACRES
R-87-FL 333400 7.6538

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY-ARIZONA

NEW RIVER CHANNEL
SW4SW4 SEC 10 T3N R1E

R-87-FL ; 200-61-8L
ZILBER LTD.

PRELIMINARY, 12-28-88 JERRY VAN GOMPEL
REVISED, 01-17-89
FINAL, 5-13-93 KWG

SW COR
SEC 10
T3N R1E

THUNDERBIRD RD.

N89°11'21"E (1320.20)
N89°10'09"E (R)

SE COR
SW4SW4

NEW RIVER/R87FL.DWG

Page 4 of 8

Exhibit "A"

N89°14'30"E 1321.09

R-87-1

NW COR
SW4SW4

NE COR
SW4SW4

SCALE 1" = 200'

(5)

N00°23'27"E 1322.13
91ST AVENUE

DESERT HARBOR DR.
R=2600 L=613.67

NEW RIVER CHANNEL

S25°35'17"W(R)
S25°36'28"W
235.81

770.82
S00°25'50"W (1320.93)
S00°24'45"W(R)

PARCEL 23
DESERT HARBOR
MCR 288-28

REFERENCE:
BROOKS HERSEY & ASSOC.
RESULTS OF SURVEY
JOB NO.167-02-TM-05 MAY 1986

SQ.FT. ACRES
R-87-1 37,988 0.8721

Exhibit "A"
Page 4 of 4

S18°35'32"W(R)
S18°36'43"W
394.95

R-87-1
CARDELLA

S25°35'17"WDR.
S25°36'28"W
385.10

446.54
446.51
399.98 (400)R

FLOOD CONTROL DISTRICT
OF MARICOPA COUNTY-ARIZONA

NEW RIVER CHANNEL
SW4SW4 SEC 10 T3N R1E

R-87-1 ; 200-61-8D
CARDELLA

PRELIMINARY: 7-02-93 KVG

REVISED:

FINAL: *7/21/93* 8-2-93

SV COR
SEC 10
T3N R1E

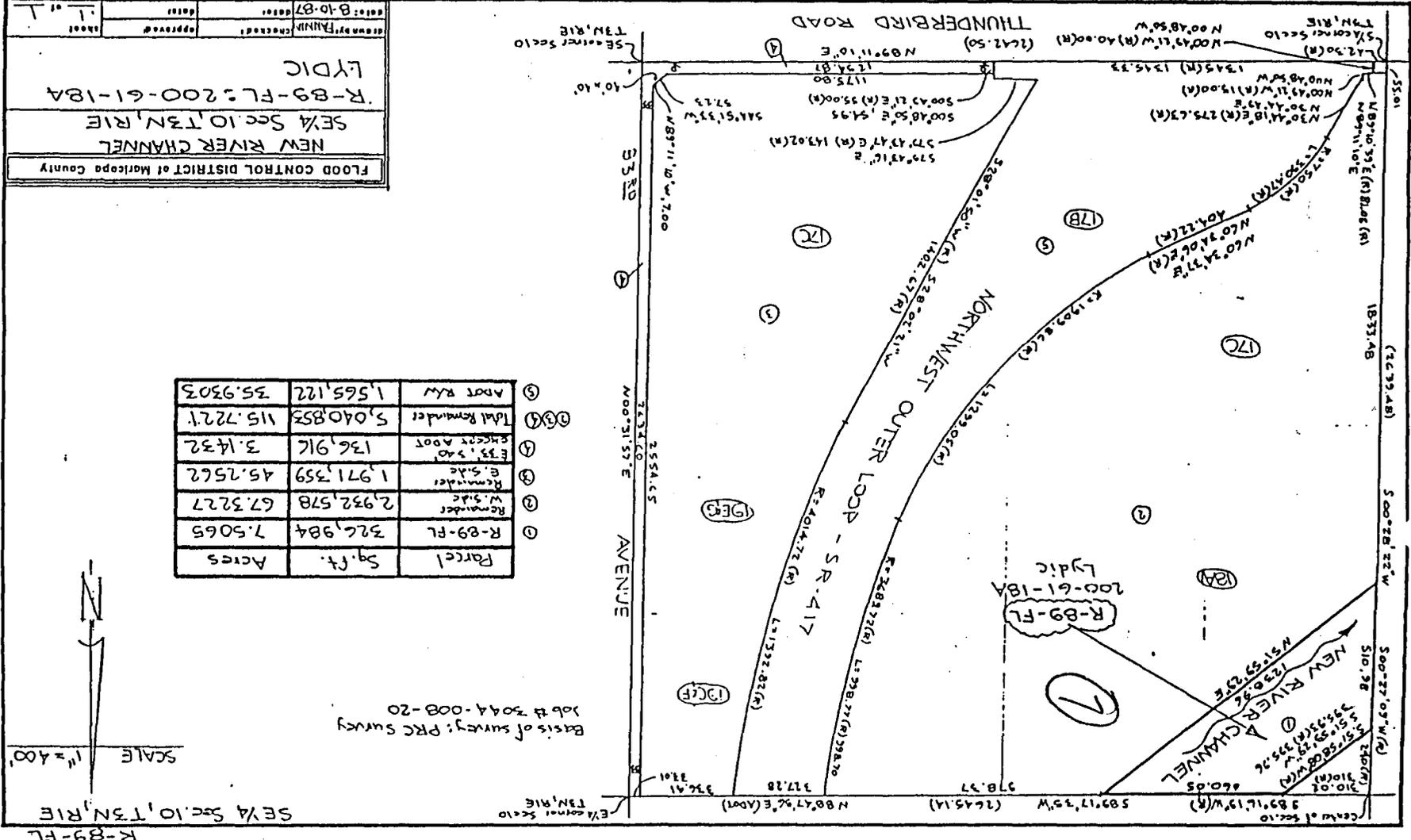
THUNDERBIRD RD.

N89°11'21"E (1320.20)
N89°10'09"E (R)

SE COR
SW4SW4

NEW RIVER \R87-1.DWG

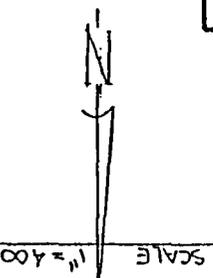
93 498398



Parcel	Sq. ft.	Acres
17A	326,984	7.5065
17B	2,932,578	67.3227
17C	1,971,359	45.2562
17D	136,916	3.1432
17E	5,040,853	115.7221
17F	1,565,122	35.9303

FLOOD CONTROL DISTRICT of Maricopa County
 NEW RIVER CHANNEL
 SE 1/4 Sec 10, T3N, R1E
 R-89-FL: 200-61-18A
 LYDIC

Drawn By	Checked	Approved	Date
B-10-87			



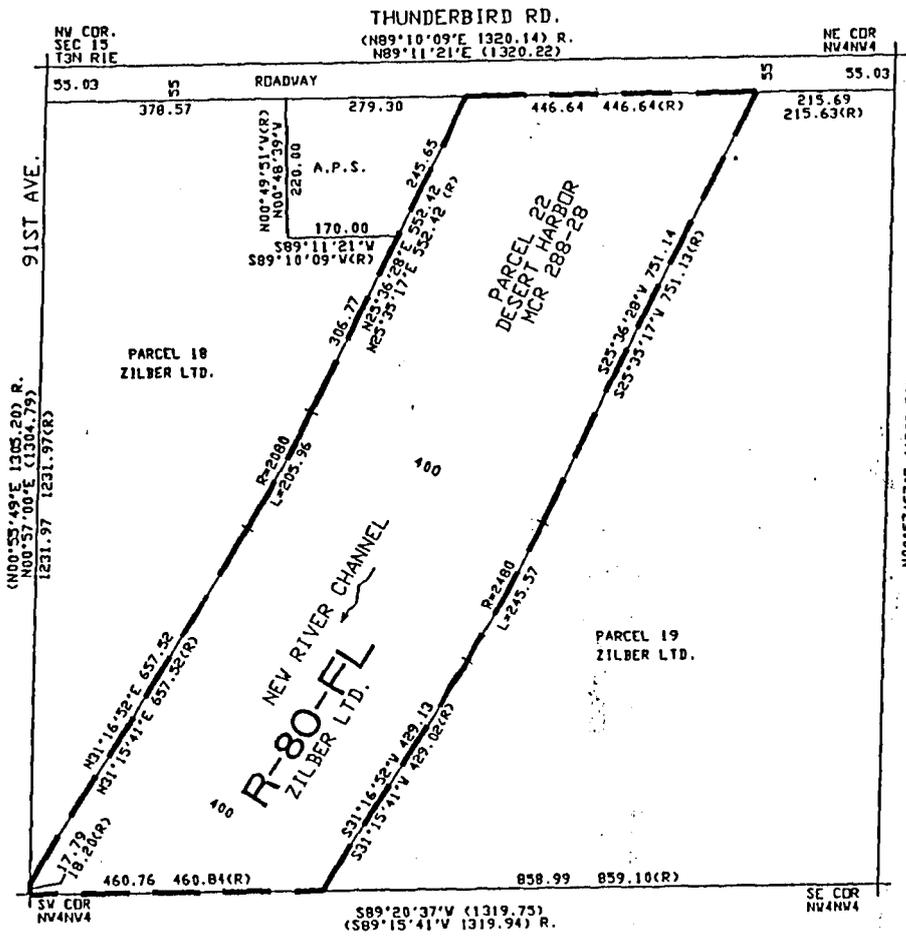
Basis of survey: PRC survey Job # 3044-008-20

R-89-FL SE 1/4 Sec 10, T3N, R1E

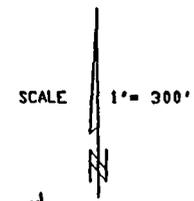
Final: PLAN C-17-93

200%

95 498400



R-80-FL



150%

REFERENCE:
 PRC ENGR. CORP. RESULTS OF SURVEY
 JOB NO. 3044-008-20 DATED 5-7-86

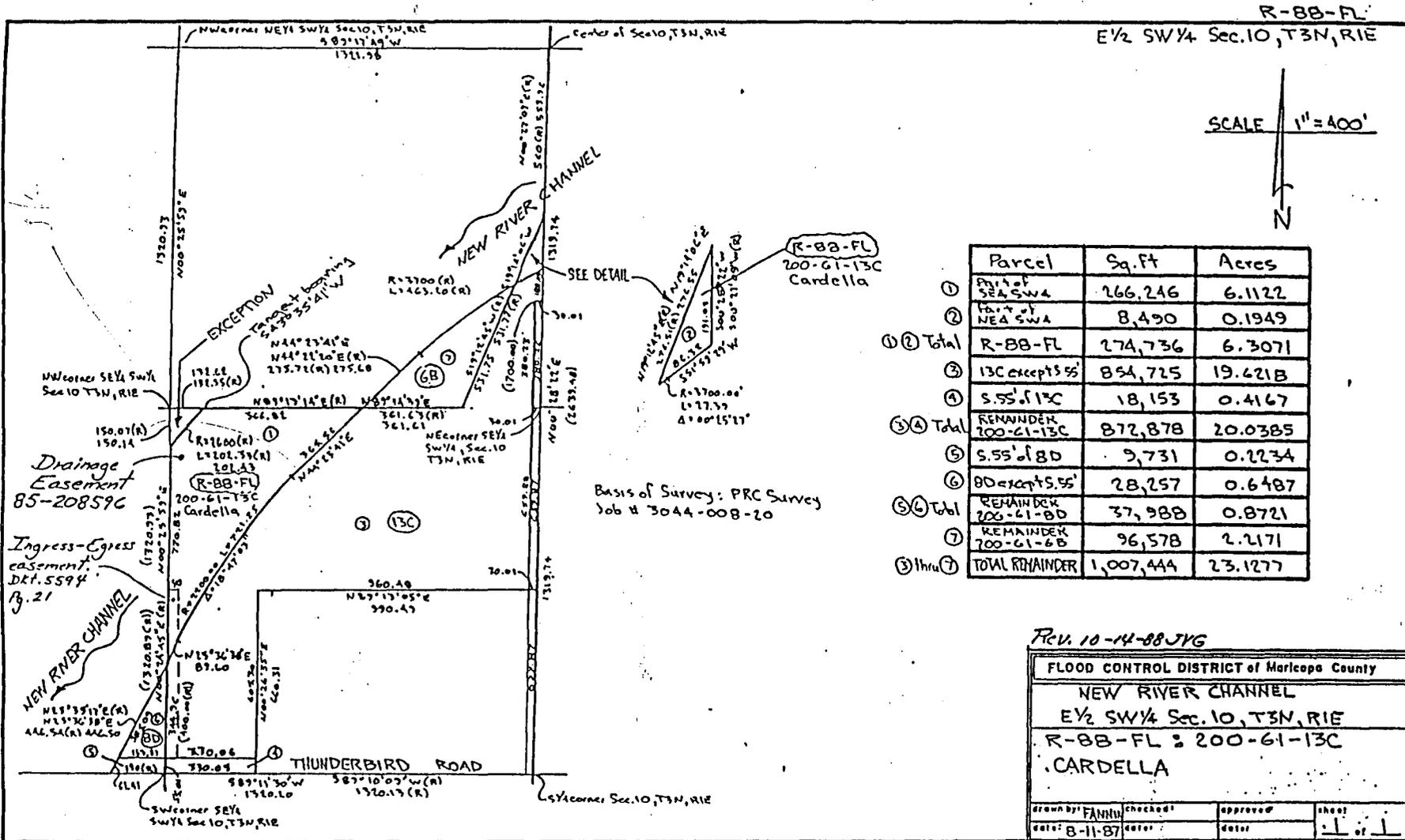
	SQ. FT.	ACRES
R-80-FL	572445	13.1415
PARCEL 18	380092	8.7257
PARCEL 19	649339	14.9068
ROADWAY	72612	1.6669

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY-ARIZONA
NEW RIVER CHANNEL
NW4NW4 SEC 15 T3N R1E
R-80-FL ; 200-79-13D,15C ZILBER LTD.
PRELIMINARY: 12-12-88 JERRY VAN GOMPEL
REVISED: 12-27-88 1-17-89 3-3-89
FINAL: 5-14-93 KWG

Exhibit "A" Page 2 of 8

200 1/2

6



REV. 10-14-88 JVG

FLOOD CONTROL DISTRICT of Haricopa County			
NEW RIVER CHANNEL			
E 1/2 SW 1/4 Sec. 10, T3N, R1E			
R-88-FL : 200-61-13C			
CARDELLA			
Drawn by: FANNU	Checked:	Approved:	Sheet:
Date: 8-11-87	Date:	Date:	1 of 1

FINAL: KWD 8-2-93

APPENDIX B

Site Photographs

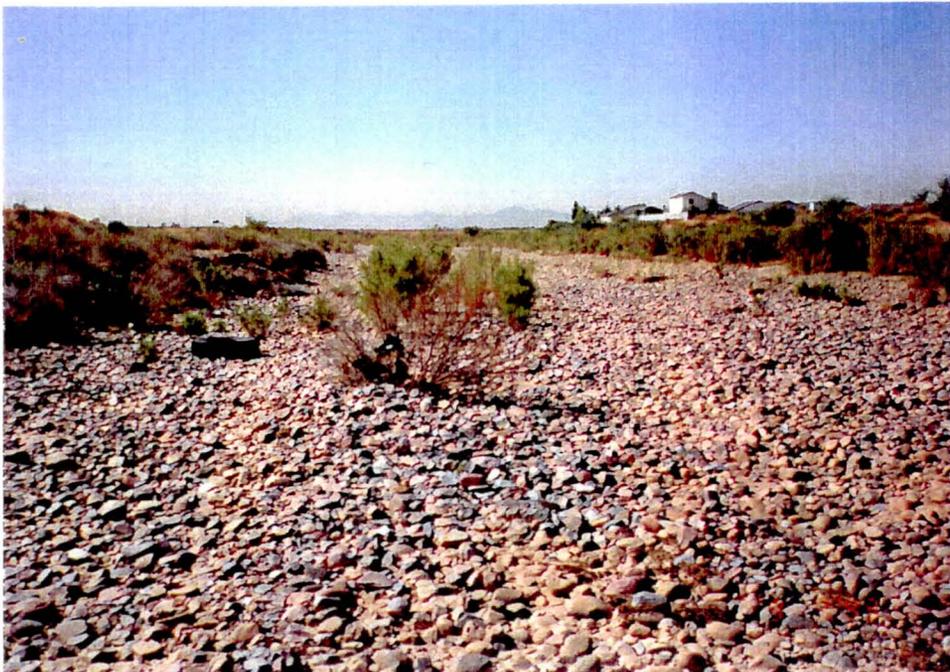
Appendix B
Site Photographs

<u>PHOTOGRAPH</u>	<u>DESCRIPTION</u>
1	Northwest corner of Parcel 1 viewing east.
2	North center of Parcel 1 viewing south.
3	South end of Parcel 1 viewing north.
4	Wood box in center of Parcel 7.
5	Standing water of Parcels 2 and 7.
6	West side of Parcel 2 viewing south.
7	Dumped refuse on east side of Parcel 6.
8	Dumped refuse of east side of Parcel 6.
9	Dumped refuse on east side of Parcel 6.
10	Dumped refuse on east side of Parcel 6.
11	Dumped refuse on east side of Parcel 6.
12	Dumped refuse on east side of Parcel 6.
13	Southeast corner of Parcel 5 viewing north.
14	Soil stain in southwest corner of Parcel 5.
15	North center of Parcel 4 viewing south.
16	View under bridge from west side of Parcel 4.
17	Southeast corner of Parcel 4 viewing north.
18	Bales of hay in center of Parcel 4.



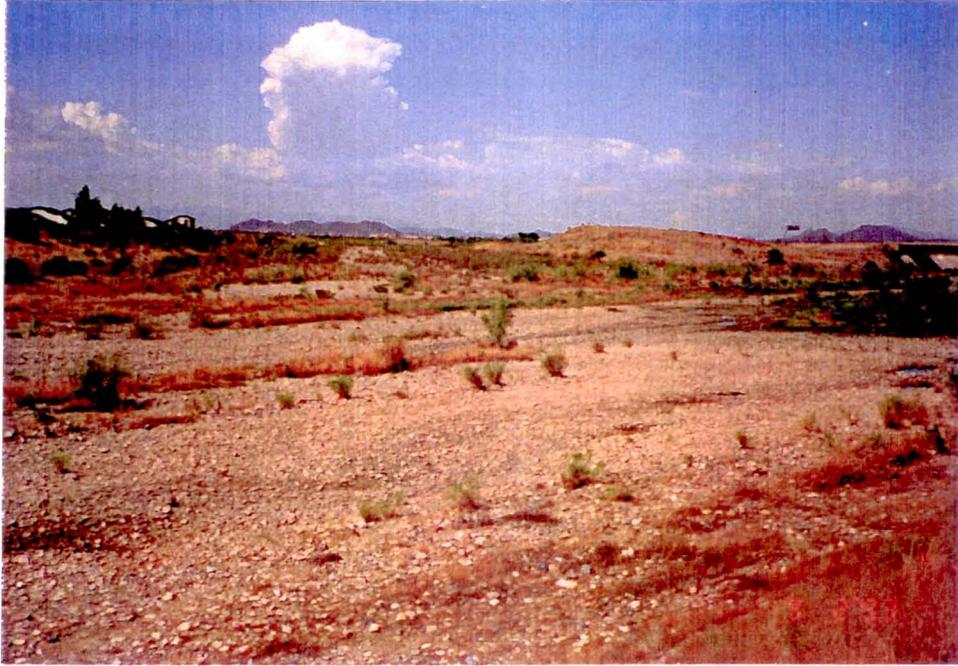
Photograph No. 1

Northwest corner of Parcel 1 viewing east.



Photograph No. 2

North center of Parcel 1 viewing south.



Photograph No. 3

South end of Parcel 1 viewing north.



Photograph No. 4

Wood box in center of Parcel 7.



Photograph No. 5

Standing water on Parcels 2 and 7.



Photograph No. 6

West side of Parcel 2 viewing south.



Photograph No. 7

Dumped refuse on east side of Parcel 6.



Photograph No. 8

Dumped refuse on east side of Parcel 6.



Photograph No. 9

Dumped refuse on east side of Parcel 6.



Photograph No. 10

Dumped refuse on east side of Parcel 6.



Photograph No. 11

Dumped refuse on east side of Parcel 6.



Photograph No. 12

Dumped refuse on east side of Parcel 6.



Photograph No. 13

Southeast corner of Parcel 5 viewing north.



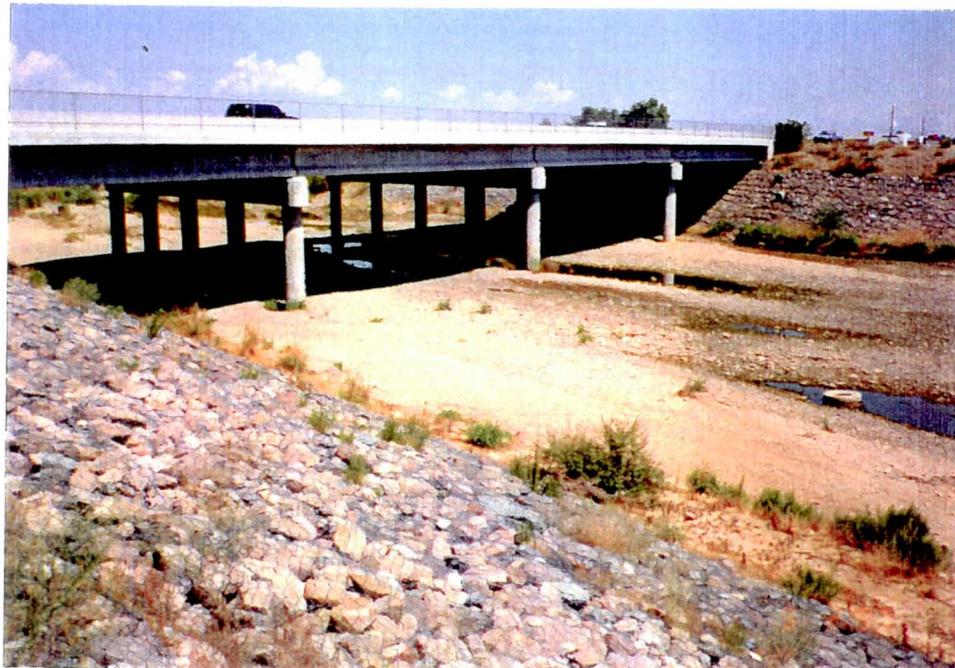
Photograph No. 14

Soil stain in southwest corner of Parcel 5.



Photograph No. 15

North center of Parcel 4 viewing south.



Photograph No. 16

View under bridge from west side of Parcel 4.



Photograph No. 17

Southeast corner of Parcel 4 viewing north.



Photograph No. 18

Bales of hay in center of Parcel 4.