



TEXAS WATER COMMISSION
Stephen F. Austin State Office Building
Austin, Texas

PRODUCTION AREA AUTHORIZATION
 Mine: Kingsville Dome
 Production Area: UR02827-021

AUTHORIZATION to conduct underground
 injection under provisions of
 Permit No. UR02827-001

I. Name of Permittee:

A. Name URI, Inc.
 12377 Merit Drive, Suite 750, LB-14

B. Address Dallas, Texas 75251

II. Name of Mine: Kingsville Dome

III. Standard Provisions

- A. Restoration Table
- B. Control Parameter Upper Limits Table
- C. Designated Monitor Well Table
- D. Permit Area Map
- E. Mining and Restoration Schedule
- F. Plan View of Mine Area
- G. Baseline Water Quality Table

CONTINUED on Pages 2 through 11

The permittee is authorized to conduct injection activity in accordance with limitations, requirements, and other conditions set forth herein. This Authorization is granted subject to the provisions of Permit No. UR02827-001. This Authorization is valid until amended or revoked by the Commission.

APPROVED, ISSUED, AND EFFECTIVE this 28th day of June 1990

ATTEST:

Blanca A. Varguez

BDW

For the Commission

IV. Special Provisions

- A. Proof of mechanical integrity for all injection wells shall be demonstrated by well completion reports, cementing records, and a pressure test.
- B. Financial Assurance

The permittee shall secure and maintain in full force and effect at all times a performance bond or other form of financial security, in accordance with 31 TAC 305.153 to provide for plugging and abandonment of the permitted Class III uranium wells. The bond or other form of financial security shall be in the amount of \$422,021.00 and shall be reviewed annually. The amount of financial security may, at the discretion of the Texas Water Commission in a separate and independent proceeding, be altered at a future date to provide for adequate plugging subject to prevailing general economic conditions. This permit does not authorize underground injection of fluid unless the permittee has in effect the performance bond or other form of financial security described above.

- C. Non-Production Zone Monitor Wells

1. Non-Production Zone Monitor Wells shall be completed in the second overlying ("E Sand") and first underlying ("A Sand") aquifers in this production area. These monitor wells shall be tested for water level fluctuations every three months during injection operations.
2. The procedure to be used in testing for water level fluctuations is subject to commission approval. The results of these water level measurements shall be submitted to the TWC Central Office on March 1st, June 1st, September 1st, and December 1st of each year.
3. If a Monitor Well in one of these aquifers exhibits water level fluctuations that demonstrates hydrologic communication between the Production Zone and one of these aquifers, the permittee shall determine if and to what extent leaching solutions are present in affected aquifers and effect clean-up in accordance with 31 TAC Section 331.106. Under such circumstances, corrective action reports shall be submitted monthly to the Director, Water Rights and Uses Division, in Austin.

ATTACHMENT A
RESTORATION TABLE

<u>Parameter</u>	<u>Unit</u>	<u>Concentration</u>
Calcium	mg/l	25.3
Magnesium	mg/l	5.5
Sodium	mg/l	323
Potassium	mg/l	8.2
Carbonate	mg/l	7
Bicarbonate	mg/l	327
Sulfate	mg/l	224
Chloride	mg/l	224
Fluoride	mg/l	0.65
Nitrate-N	mg/l	0.89
Silica	mg/l	27
pH	No Units	7.37 to 8.66
TDS	mg/l	1035
Conductivity	µmhos	1662
Alkalinity	Std. Unit	280
Arsenic	mg/l	0.006
Cadmium	mg/l	0.0002
Iron	mg/l	0.03
Lead	mg/l	0.004
Manganese	mg/l	0.02
Mercury	mg/l	0.0001
Selenium	mg/l	0.014
Ammonia	mg/l	0.15
Molybdenum	mg/l	0.38
Radium 226	pCi/l	92
Uranium	mg/l	1.89

ATTACHMENT B
CONTROL PARAMETER UPPER LIMITS TABLE

<u>CONTROL PARAMETER</u>	<u>PRODUCTION ZONE</u>	<u>NON-PRODUCTION ZONE (D SAND)</u>
Uranium (mg/l)	8.75	5.027
Conductivity (μ mhos)	2,525	2,463
Chloride (mg/l)	420	406

ATTACHMENT C

DESIGNATED MONITOR WELL TABLE

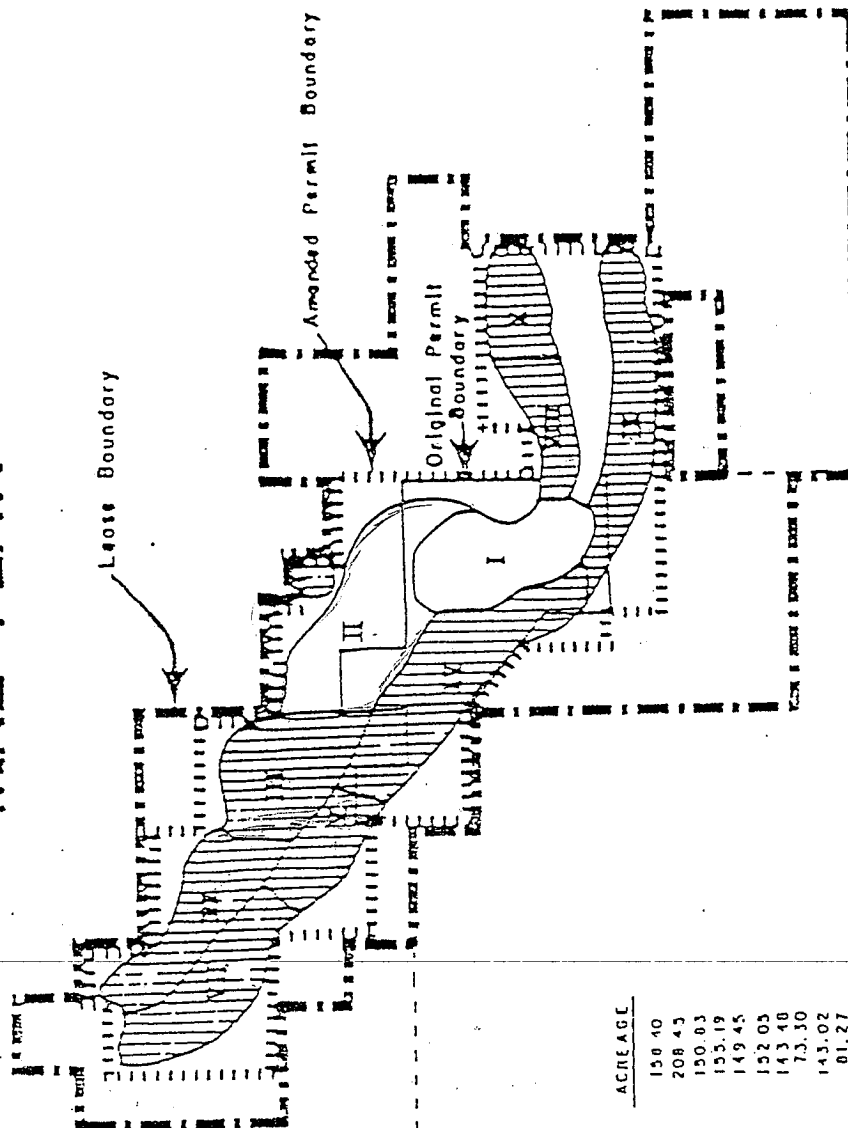
Production Zone

Non-Production Zones

	<u>First Overlying</u>	<u>Second Overlying</u>	<u>First Underlying</u>
MW31	D17	E9	A9
MW32	D18	E10	A10
MW33	D19	E11	A11
MW34	D20	E12	A12
MW35	D21	E13	A13
MW36	D22	E14	A14
MW37	D23	E15	A15
MW38	D24	E16	A16
MW39	D25	E17	A17
MW40	D26	E18	A18
MW41	D27		
MW42	D28		
MW43	D29		
MW44	D30		
MW45	D31		
MW47	D32		
MW48	D33		
MW49	D34		
MW50	D35		
MW51	D36		
MW52	D37		
MW53	D38		
MW54	D39		
MW55	D40		
MW56	D41		
MW57	D42		
MW58	D43		
MW59	D44		
MW60	D45		
MW61	D46		
MW62	D47		
MW63	D48		
MW64	D49		
MW65	D50		
MW66	D51		
MW67	D52		
MW68	D53		
MW69	D54		
MW70	D55		
MW71	D56		
	D57		

ATTACHMENT D

URANIUM RESOURCES, INC. KINGSVILLE DOME MINE PLAN



AREA	ACREAGE
I	158.40
II	208.43
III	150.03
IV	155.19
V	149.45
VI	152.03
VII	143.40
VIII	73.30
IX	143.02
X	01.27

TOTAL PERMIT ACREAGE IS APPROXIMATELY 2155 ACRES

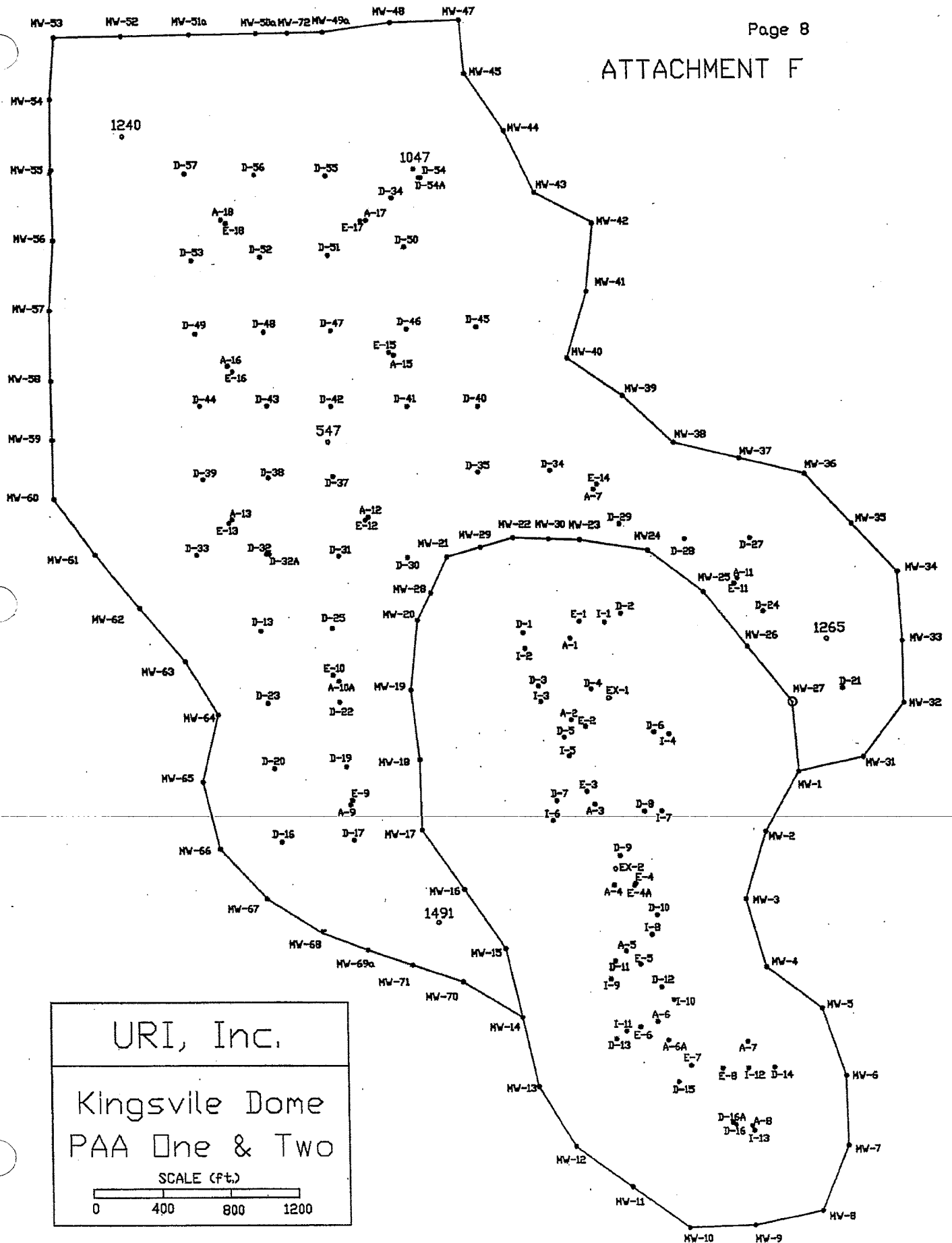
ATTACHMENT E

KINGSVILLE DOME PROJECT
REVISED MINE PLAN
7-6-89

[illegible]

PPPPPPPP=PRODUCE
RRRRRRRR=RESTORE

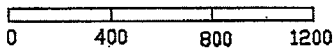
ATTACHMENT F

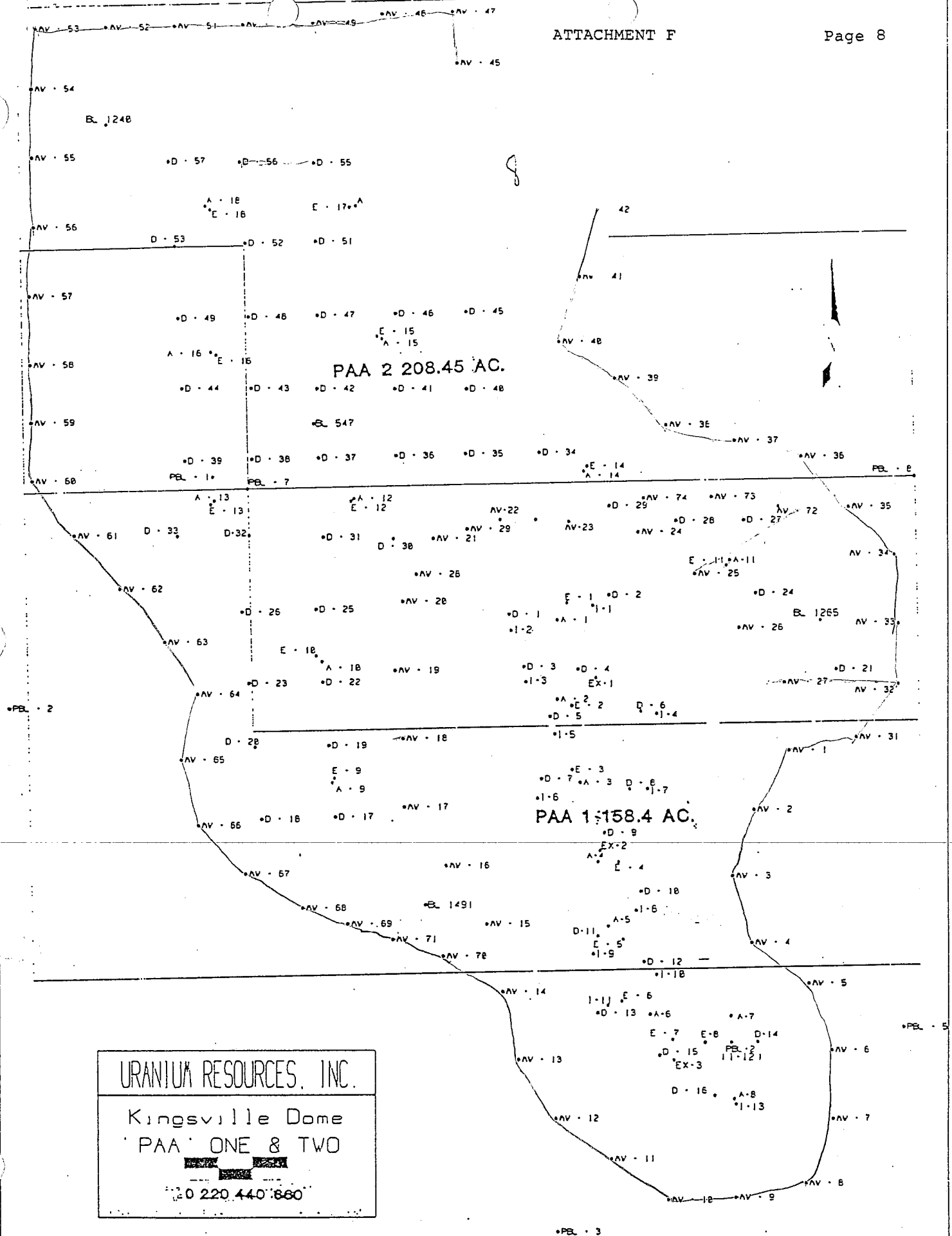


URI, Inc.

Kingsville Dome
PAA One & Two

SCALE (Ft.)





URANIUM RESOURCES, INC.

Kingsville Dome
PAA ONE & TWO

0 220 440 660

ATTACHMENT G

GROUND WATER ANALYSIS REPORT SUMMARY And
BASELINE WATER QUALITY - In Situ Mining

Company: URL, Inc.
Mine Name: Kingsville Dome
Mine Area: #2
Date Summarized: 2-13-90

PARAMETER	UNIT	NON PRODUCTION ZONE**				PRODUCTION ZONE				WELL I.D. BY AREA*		
		MINE AREA**				PRODUCTION AREA				NON PROD. ZONE	Mine	Product.
		Low	Average	High		Low	Average	High				
1	Calcium	2.5	10.2	41		8.4	25.3	74	12	D - 7	MW - 31	BL 547
2	Magnesium	.2	3.0	8.8		3.3	5.5	10	3.9			BL 1047
3	Sodium	321	363	406		296	318	352	315			BL 1240
4	Potassium	3.1	7.9	28		5.1	6.7	9	6.3			BL 1265
5	Carbonate	0	25	72		0	7	23	0			BL 1491
6	Bicarbonate	243	383	500		253	327	505	246			
7	Sulfate	3	96	280		13	183	227	206			
8	Chloride	217	270	325		198	231	336	209			
9	Fluoride	.57	1.05	2.20		.55	.65	1.10	.57			
10	Nitrate - N	<.01	.11	1.8		.01	.89	5.8	.09			
11	Silica	18	42	160		18	22	30	22			
12	pH	7.98	8.71	9.20		7.37	8.33	8.94	8.15			
13	TDS	895	1058	1250		914	1008	1230	976			
14	Conductivity	1490	1761	1970		1490	1648	2020	1590			
15	Alkalinity	199	355	446		240	280	444	228			
16	Arsenic	<.001	.002	.01		<.001	.004	.023	<.001			
17	Cadmium	<.0001	.0001	.0005		<.0001	.0002	.0017	<.0001			
18	Iron	<.01	.09	.82		.01	.03	.16	.02			
19	Lead	<.001	.005	.065		<.001	.002	.014	<.001			
20	Manganese	<.01	.01	.03		<.01	.02	.08	<.01			
21	Mercury	<.0001	.0001	.0001		<.0001	<.0001	<.0001	<.0001			
22	Selenium	<.001	.001	.004		<.001	.002	.006	.001			
23	Ammonia	<.01	.13	1.50		.01	.08	.2	.08			
24	Uranium	<.001	.006	.027		<.001	.019	.272	.252			
25	Molybdenum	<.01	.01	.03		<.01	.03	.2	.05			
26	Radium 226	.1	.42	2		.3	5.7	82	31			

* LIST THE IDENTIFICATION NUMBERS OF WELLS USED TO OBTAIN THE LOW, AVERAGE AND HIGH VALUES. ** MONITOR WELLS

Company: URI, Inc.
Mine Name: Kingsville Dome
Mine Area: #2
Date Summarized: July 7, 1989

ATTACHMENT G (CONT.)

GROUND WATER ANALYSIS REPORT SUMMARY And
BASELINE WATER QUALITY - In Situ Mining

PARAMETER	UNIT	NON PRODUCTION ZONE**				PRODUCTION ZONE				WELL I.D. BY AREA*		
		MINE AREA**		PRODUCTION AREA		MINE AREA**		PRODUCTION AREA		NON PROD. ZONE	PROD. ZONE	
		Low	Average	High		Low	Average	High			Mine	Product.
1	Calcium	103	309	514						E 9		
2	Magnesium	151	275	418						E 10		
3	Sodium	2740	3744	4600						E 11		
4	Potassium	20	34	57						E 12		
5	Carbonate	0	3	18						E 13		
6	Bicarbonate	168	263	461						E 14		
7	Sulfate	651	1748	2696						E 15		
8	Chloride	4210	5801	7205						E 16		
9	Fluoride	.49	.68	.82						E 17		
10	Nitrate - N	<.01	.01	.05						E 18		
11	Silica	19	23	31								
12	pH	7.66	8.01	8.51								
13	TDS	8610	12320	15800								
14	Conductivity	14100	19540	24200								
15	Alkalinity	138	220	378								
16	Arsenic	<.001	<.001	<.001								
17	Cadmium	<.0001	.0001	.0001								
18	Iron	<.01	.03	.06								
19	Lead	<.001	<.001	<.001								
20	Manganese	<.01	.01	.02								
21	Mercury	<.0001	<.0001	<.0001								
22	Selenium	<.001	<.001	<.001								
23	Ammonia	.03	.25	1.10								
24	Uranium	<.001	.001	.004								
25	Molybdenum	<.01	<.01	<.01								
26	Radium 226	.7	1.07	1.7								

* LIST THE IDENTIFICATION NUMBERS OF WELLS USED TO OBTAIN THE LOW, AVERAGE AND HIGH VALUES. **MONITOR WELLS

GROUND WATER ANALYSIS REPORT SUMMARY AND
BASELINE WATER QUALITY - In Situ Mining

Company: URI, Inc.
 Mine Name: Kingsville Dome
 Mine Area: PAA #2
 Date Summarized: 2-1-90

Production Area Authorization
 Permit No. URC2827-02

	PARAMETER	UNIT	NON PRODUCTION ZONE**				MINE AREA**				PRODUCTION ZONE			WELL I.D. BY AREA*	
			Low			High	Low			High	Low			NON PROD. ZONE	PROD. ZONE
			Average	High	Low		Average	High	Low	Average	High	Low	Average	High	Product.
1	Calcium	mg/l	10	18	24									A 9	
2	Magnesium	mg/l	2.1	4.1	8									A 10	
3	Sodium	mg/l	358	386	428									A 11	
4	Potassium	mg/l	7.8	10.6	15									A 12	
5	Carbonate	mg/l	0	18	41									A 13	
6	Bicarbonate	mg/l	179	209	277									A 14	
7	Sulfate	mg/l	270	328	383									A 15	
8	Chloride	mg/l	257	279	328									A 16	
9	Fluoride	mg/l	.47	.56	.65									A 17	
10	Nitrate - N	mg/l	.01	.05	.32									A 18	
11	Silica	mg/l	18	22	25										
12	pH	Std. unit	8.18	8.74	9.09										
13	TDS	mg/l	1140	1230	1380										
14	Conductivity	µmhos	1780	1924	2170										
15	Alkalinity	Std. unit	163	197	227										
16	Arsenic	mg/l	.001	.003	.007										
17	Cadmium	mg/l	.0001	.0001	.0003										
18	Iron	mg/l	.01	.03	.11										
19	Lead	mg/l	.001	.001	.001										
20	Manganese	mg/l	.01	.01	.01										
21	Mercury	mg/l	.0001	.0001	.0001										
22	Selenium	mg/l	.001	.001	.001										
23	Ammonia	mg/l	.03	.82	2.5										
24	Uranium	mg/l	.001	.004	.022										
25	Molybdenum	mg/l	.03	.24	.7										
26	Radium 226	mg/l	.4	.7	1.3										

* LIST THE IDENTIFICATION NUMBERS OF WELLS USED TO OBTAIN THE LOW, AVERAGE AND HIGH VALUES.

** MONITOR WELLS