

TA-00



7060

PRS 0-019

Central Waste Water Treatment Plant

TA-0

SRS Score = 43

HSWA Permit

Erosion Matrix Score = 51.5

2-10-99



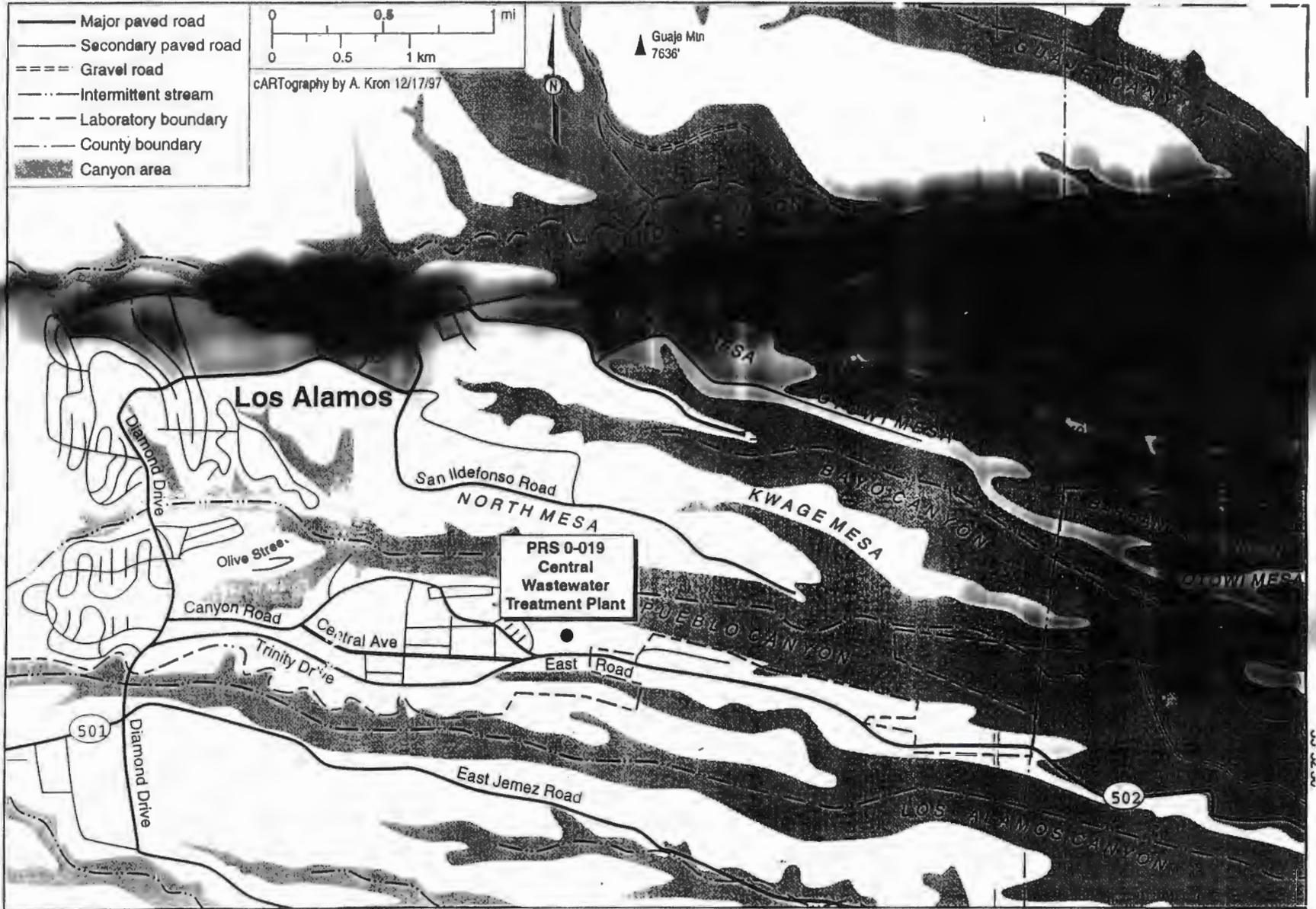


Fig. 1.1-1 Location of PRSs 0-019 at TA-0.

PRS Description

- **Site of the former Central WWTP**
 - received only municipal and LANL sanitary waste
 - effluent used to irrigate golf course and softball fields
- **Operated from 1947 to the mid 1960's**
 - land transferred to Los Alamos County (LAC) in 1967 with WWTP intact *quit claim deed*
 - LAC did not operate as WWTP
 - LAC did use site and structures for roads and grounds staging area/office
 - site heavily reworked by LAC over past 30 years, including the removal of most structures



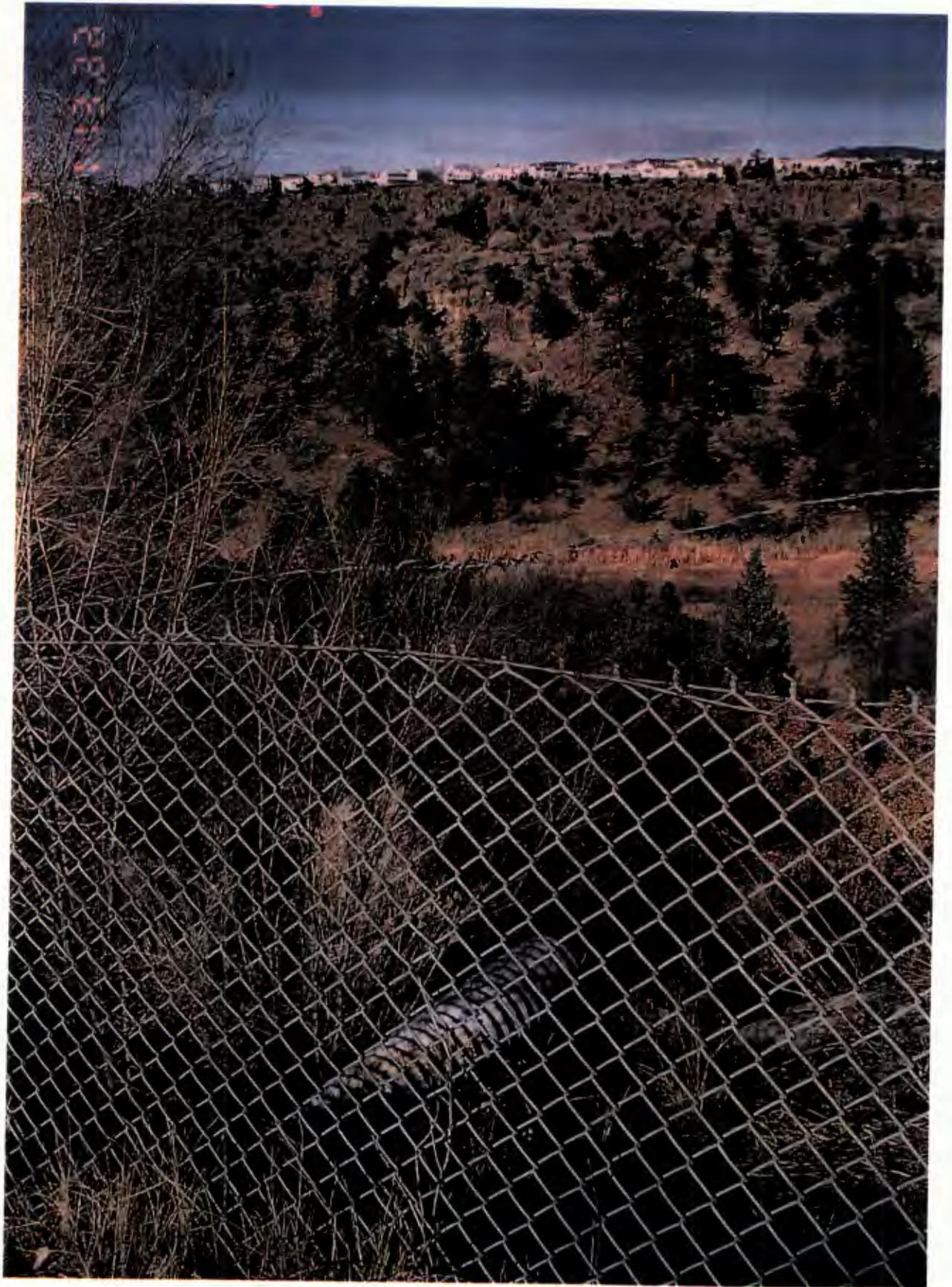


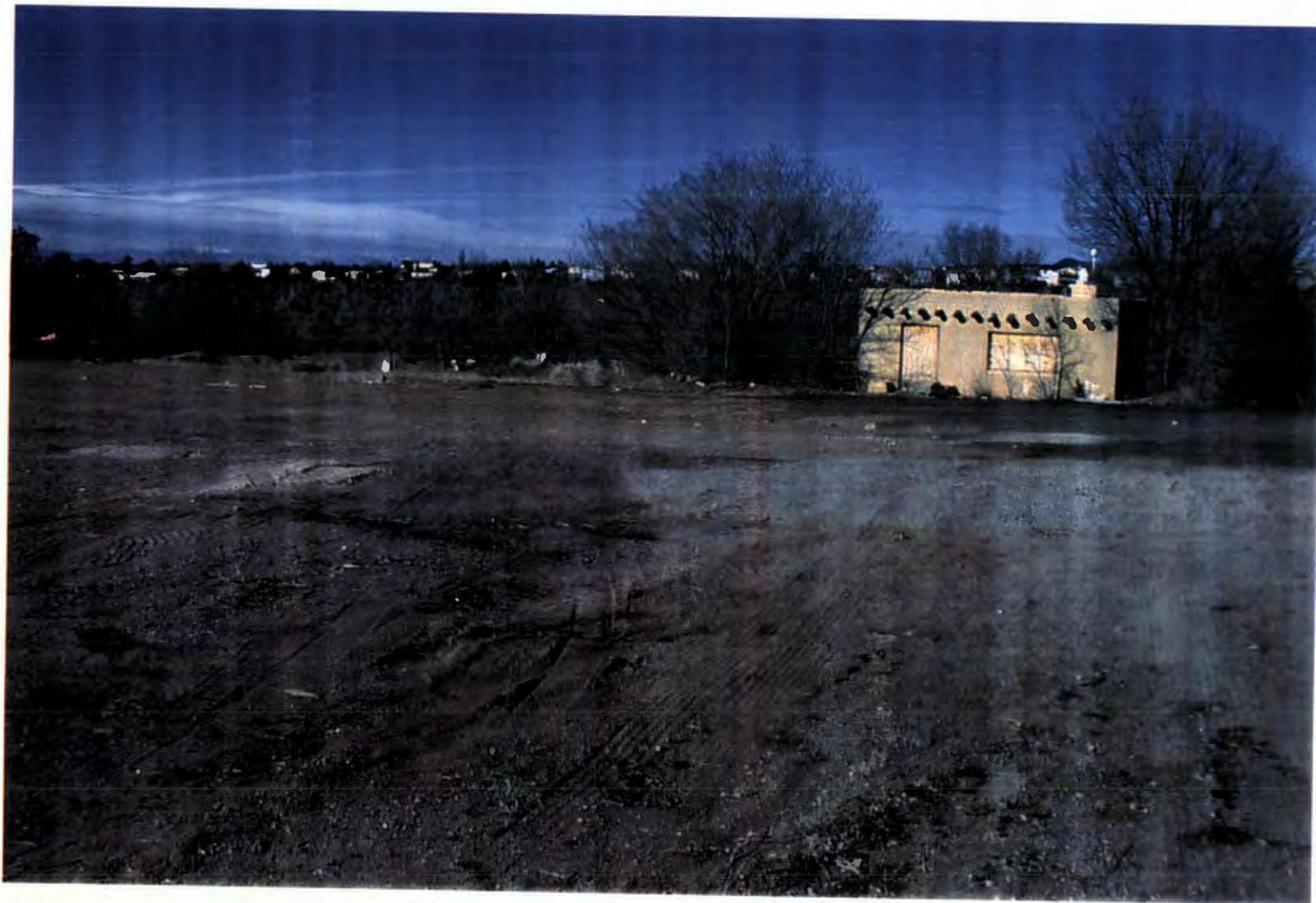


PRS Description (concluded)

- **Land currently slated for development by Los Alamos Retirement, Inc. under lease from LAC**
- **Site located at the eastern edge of the Los Alamos townsite, north of SR 502**
- **Drains to a hanging valley that drains to Pueblo Canyon, ~ 1/4 mile away**
- **Initial investigation was completed in 1997 - no report generated**

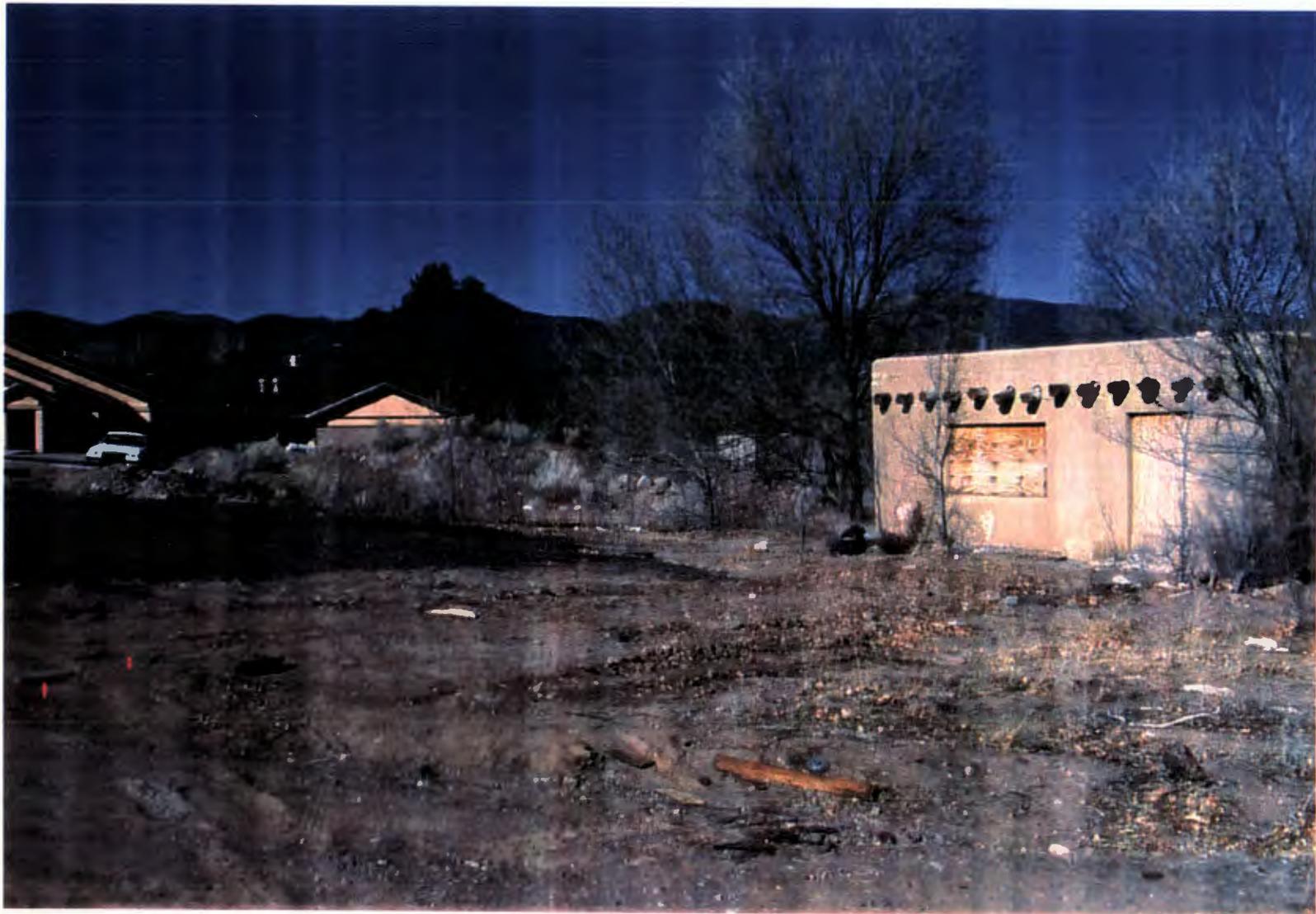






Pump
House

Adrian's
home



Characterization

- **PRS sampled in accordance with approved work plan with the following exceptions:**
 - additional samples were collected at each outfall
 - sludge beds were samples at two depths
 - a sludge fill area could not be confirmed, so no samples were taken
- **All samples were field screened for radioactivity (alpha, beta, and gamma), organic vapors, and combustible gases to protect worker health and safety**



Characterization (concluded)

- **Analyzed for radionuclides (gamma spec, gross alpha, gross beta, and tritium), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), target analyte list (TAL) metals, pesticides/PCBs, and moisture**



Analytical Results

- **Eastern Outfall**

Sample ID	Location ID	Depth (in.)	Lead (mg/kg)	Chromium (mg/kg)	Iron (mg/kg)
SAL	NA	NA	400	210	NA
0100-97-0201	00-05941	0-3	1,300	290	57,000
0100-97-0202	00-05942	0-4	42	3.9	4,600

- **Western Outfall**

Sample ID	Location ID	Depth (in.)	Lead (mg/kg)	Mercury (mg/kg)	AROCLOR 1254
SAL	NA	NA	400	23	0.066
0100-97-0203	00-05943	Inside pipe	34	2.7	0.2
0100-97-0204	00-05944	3-8	30	1.5	0.21



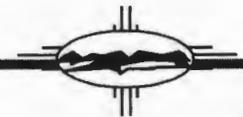
Analytical Results (concluded)

• Sludge beds

Sample ID	Location ID	Depth (ft.)	U235 (pCi/g)	Mercury (mg/kg)	Lead (mg/kg)
SAL	N/A	N/A	10	23	400
UTL	N/A	N/A	0.084	Qbt3 NA	Qbt3 16.2
0100-96-0567	00-04981	5-6.1	0.1018	ND	ND
0100-96-0568	00-04981	11.4-12.5	0.0836	ND	ND
0100-96-0569	00-04982	5.3-6.6	0.0918	ND	ND
0100-96-0570	00-04982	8.8-10	0.126	0.05	1.5

N/A = Not Applicable

NA = Not Analyzed



Proposed Cleanup

- **Outfalls**

- define extent of contamination in outfall areas and remove *outfalls*
- confirm with fixed lab analysis

- **Mesa Top**

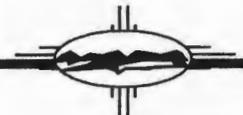
- demolish and remove remaining structure and piping to a point that does not impact currently used structures
- grout/seal ~~and~~ *any* lines not removed that cannot be removed
- confirmation (fixed laboratory) sampling based on visual staining, field screening, and/or field decisions



Waste Volume Estimates

ITEM	WASTE TYPE	ANTICIPATED VOLUME
Sampling waste and PPE	Sanitary	<1 cu.yd.
Contaminated soils	Industrial	10 cu.yds.
Piping and debris*	Municipal	300 cu.yds.

*Steel piping, fittings, and other equipment will be recycled if possible, reducing the volume disposed of as waste.



Implementation

- **VCA Plan preparation, address stormwater issues, run-on controls, sample site selection, T&E determinations**
- **Outfall extent and waste characterization sampling**
- **Outfall remediation and confirmation**
- **Building and pipe removal and confirmation**
- **Waste disposal and site restoration**
- **VCA Completion Report preparation**
- **Submit NFA permit modification**



Schedule

- **Scheduled for FY99 - exact time dependent on threatened and endangered species considerations**
- **Scheduled activities - four months**
 - **planning/mobilization**
 - **pre-characterization/extent sampling**
 - **outfall remediation and confirmation**
 - **mesa top remediation and confirmation**
 - **reporting/demobilization**

