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SUBJECT: McClellan Task 5015--Soil Waste Streams Record Review

PROJECT: SAC28722.15.01

INTRODUCTION

McClellan Air Force Base (McAFB), located in Sacramento County, California, provides logistical support and maintenance of aircraft and ground support systems through the Sacramento Air Logistics Center (ALC) (Figure 1).

The +50-year-old ALC is a key part of the Air Force Logistics Command lifeline of the aerospace team. The command is headquartered at Wright-Patterson AFB, Ohio, and the Sacramento center is one of five such facilities located at strategic points around the country. Each of these centers supports the Air Force's other major commands in key areas of management, procurement, supply distribution and transportation, and maintenance and repair. Each also supports certain aircraft, weapon systems, and various items and commodities.

At Sacramento ALC, aircraft such as the F/EF/FB-111, A-10, F-4, and C-12A/D are kept combat-ready. Surveillance and warning systems, radar sites, space systems such as the Space Shuttle, missile tracking stations, and airborne and ground power generators are also maintained and repaired (Ref. 1).

Environmental efforts at McAFB during the previous decade have identified numerous known or suspected hazardous waste disposal sites. These sites are located in Operable Units A, B, C, D, and other areas (Figure 2). Most of the sites have had some previous soil sampling and data analysis. The results of site-specific environmental efforts to date at McClellan reside in the Administrative Record (AR) at the Base library.

In addition to the soil contamination at the Operable Units, an ongoing Soil Program provides shallow soil sampling throughout the facility. The areas that have been sampled are designated by location or proximity to a building, but are not designated sites.

The purpose of the current effort was to conduct a record search to evaluate and quantify soil waste streams. The objective of this Technical Memorandum is to provide

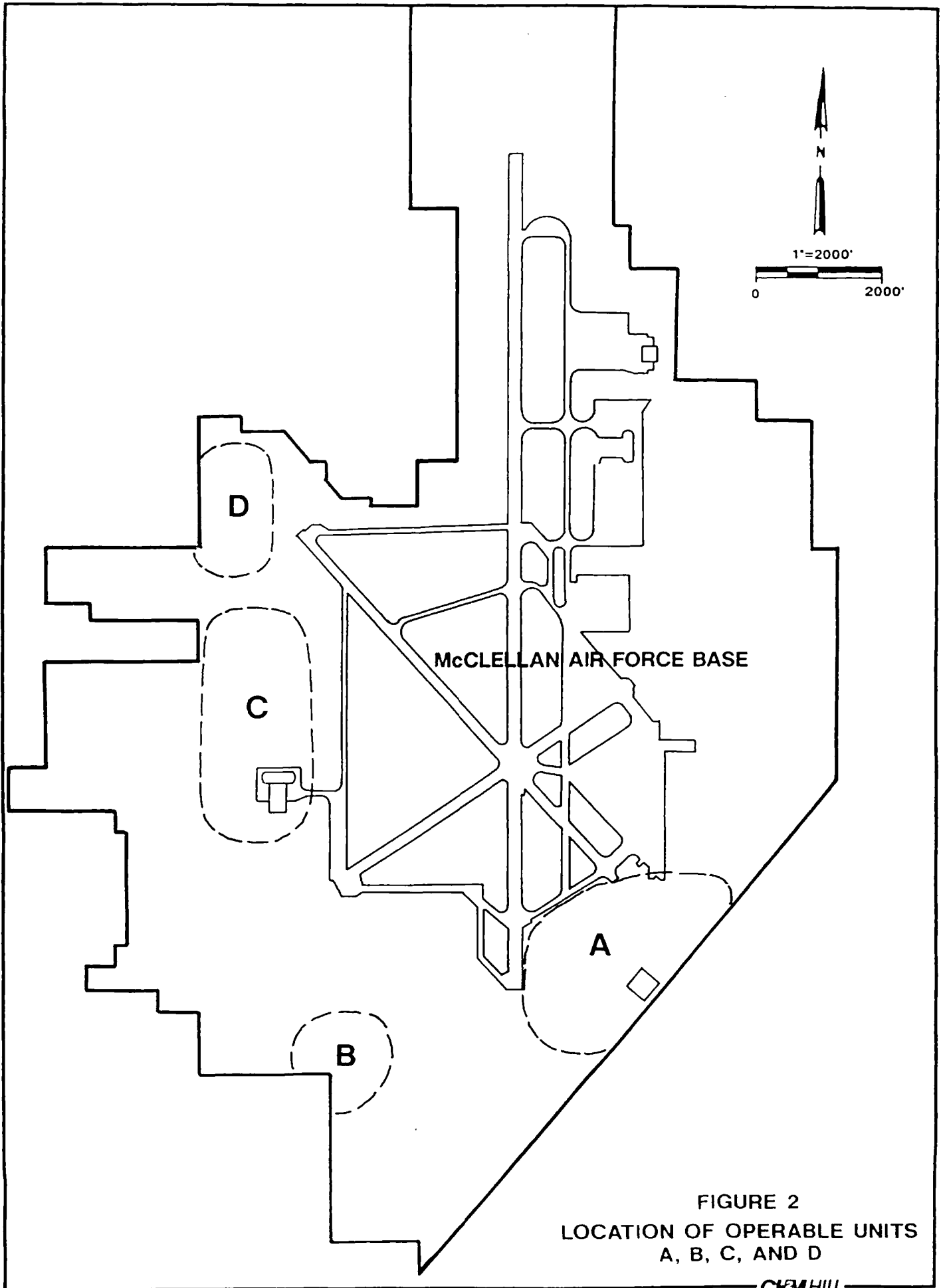


FIGURE 2
LOCATION OF OPERABLE UNITS
A, B, C, AND D

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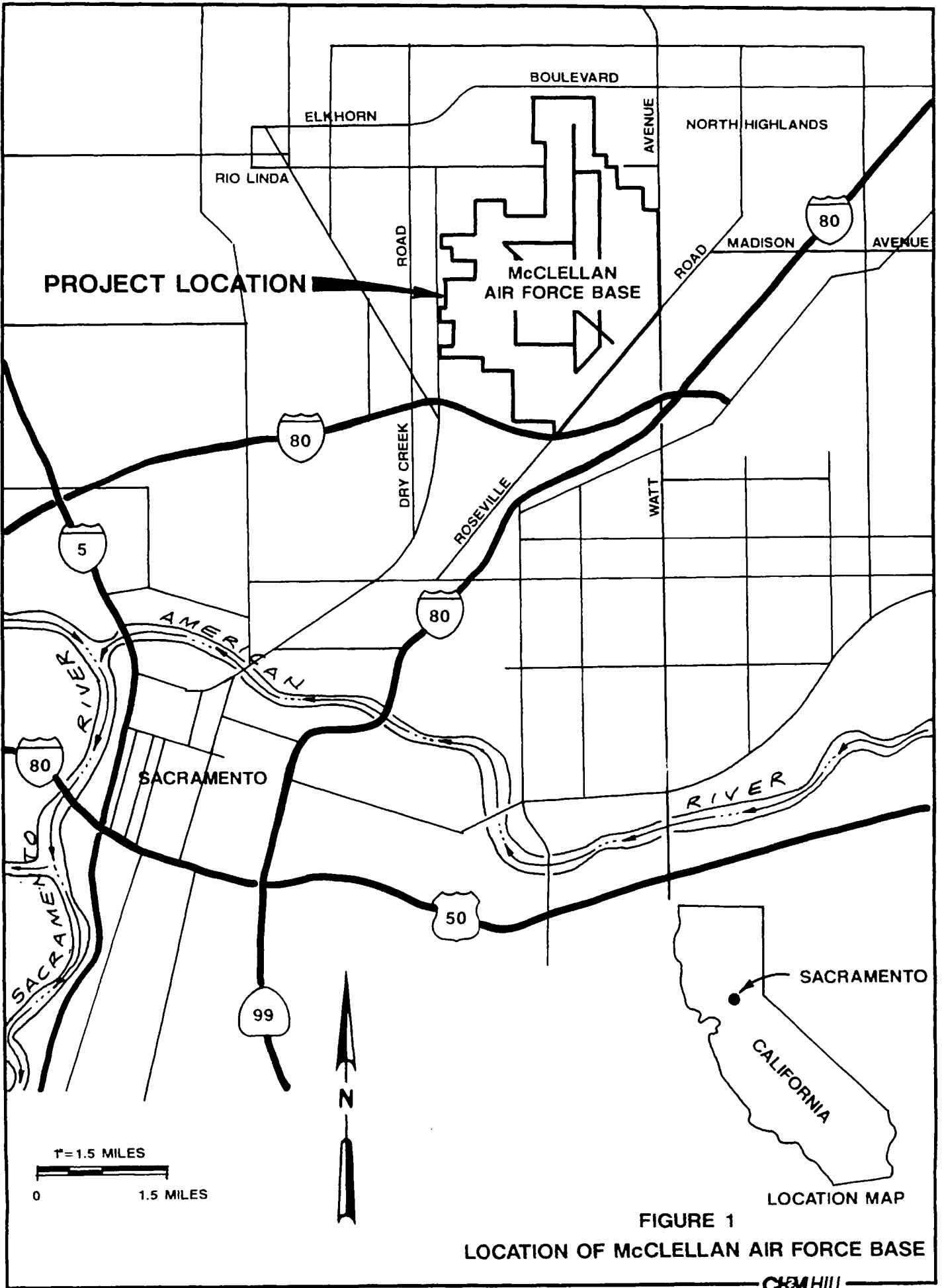


FIGURE 1
LOCATION OF McCLELLAN AIR FORCE BASE

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McAFB with a summary of the record review efforts. This memorandum will provide the necessary input into the regulatory requirements evaluation, the bioremediation treatability study work plan, and the soil treatment technologies feasibility study.

RECORD REVIEW

DOCUMENT REVIEW AND FILE SEARCH

The McAFB library houses a collection of 211 documents, largely prepared by contractors, containing information on environmental conditions at the Base. This collection, called the Administrative Record (AR), was assessed to identify those documents pertinent to the task of locating a suitable site for the steam injection pilot facility. A data review of those found to be relevant is provided in Appendix A.

Documents addressing Operable Units A, B, C, and D, and Other Areas were reviewed. Other areas are currently designated Operable Units E through H. Of particular importance were documents containing specific information on soil analyses.

In addition to the information in the AR, the record review consisted of a file search in Building 250 HH. The files contained soil sampling and analytical information from the Soil Program involving shallow soil sampling. This program began in 1987 and continues today.

To ensure that the information in the AR documents was reliable and accurate, a document Quality Assurance/Quality Control evaluation was compiled.

QA/QC OF DOCUMENTS

The Index to Data References, prepared for McAFB by Radian Corporation, lists and provides a preliminary assessment of that data (Ref 2). It was the sole source of information in the QA/QC search of relevant documents in the AR. The index categorizes the data inventory items: chemical/physical measurements, geology, maps, and specific site features. In addition, it allows retrieval of documents by site and by inventory items.

The index uses a coding scale to establish the quality of reviewed data. The preliminary quality ratings of A, B, C are defined as follows:

- A Data that are considered complete, representative, and verifiable. These data can be used for decisionmaking with a high confidence level.
- B Data considered partially lacking in completeness and/or representativeness, and/or not completely verifiable. These data should be used with

caution in decisionmaking and only with the support of other data of Code A quality.

- C Data of poor quality or data with indeterminate or undocumented quality control. These data should be used for decisionmaking only when strongly supported by data of Code A quality.

The majority of the documents received either an A or B rating. The limitation of the index is that it provides only a preliminary evaluation of documents (Ref. 3). Due to this limitation, additional criteria used in determining the quality of data were the completeness of information and the existence of supporting documents. Using the index, CH2M HILL determined that existing data were of sufficient quality for the site selection process. However, the data should not be assumed to be completely accurate. Additional samples should be collected before any feasibility study begins.

The site selection process involved using information from existing documents to target areas with high and appropriate contamination.

RESULTS

Several tables have been constructed to summarize the data obtained from the Record Review. Tables 5, 6, 7, 8, and 9 are summaries of the data in Operable Units A, B, C, D, and other areas, respectively. The data in these tables are divided into several information categories. These categories are:

- Site numerical designation and description
- Contaminants
- Concentration range (in mg/kg)
- Number of samples taken at a particular site
- Approximate depth of samples (in feet)
- Approximate area of site (in square feet)
- Miscellaneous comments

Table 10 contains the information from the Soil Program. The information in Table 10 is categorized in a manner similar to the above table with the exception that site number is designated as building or location number.

The most important portions of Tables 5 through 10 are the list of site- or building/location-specific contaminants and their concentrations. Contaminants were classified into four categories: volatile organics, semivolatile organics, oil and grease, and/or total petroleum hydrocarbons, and heavy metals. Within each category, the individual contaminants were listed alphabetically (by first letter only). The concentration of a particular contaminant at a specific site is presented as a range with only the high and low values listed. If the data review showed that only one concentration value of a

contaminant existed at a site, this single value was also listed. In summary, every contaminant at every known and sampled site and building or location is presented in Tables 5 through 10. These tables provide a quick and ready reference of contamination at a specific site or location.

The voluminous tables (5 through 10) reflect the enormous amount of environmental information in the AR and Soil Program files. To condense these data even further, Tables 1 through 4 were created to summarize the information in Tables 5 through 10. These summary tables contain only the concentration range for each specific contaminant. Again, the contaminants are classified into four categories: Table 1 contains volatile organics; Table 2 contains semivolatile organics; Table 3 contains heavy metals; and Table 4 contains miscellaneous compounds. All contaminants discovered through chemical analysis are listed. The corresponding concentration range for a particular contamination is the value of lowest and highest concentration (in mg/kg) found in the record review. Therefore, Tables 1 through 4 contain the lowest and highest concentration throughout the base for each contaminant to date.

REFERENCES

1. The Golden State Salutes McClellan Air Force Base. Marcoa Publishing, Inc., San Diego, California. 1987.
2. Index to Data References, Installation Restoration Program, Stage 3, McClellan Air Force Base. Radian Corporation. December 1988.
3. Personal Conversation with Joy Rogalla, Quality Assurance Officer. Radian Corporation, Sacramento, California. November 8, 1990.

Table 1
The Range of Volatile Organic Compounds in Soil at McClellan AFB

Volatile Organic Compounds	Concentration Range (mg/kg)		Site or Location With Highest Concentration
	Low	High	
Acetone	0.11	76	13
Benzene	0.01	50	4
2-Butanone	0.04	43	13
Bromodichloromethane	0.02	--	--
Chloroform	0.01	0.89	10
Chlorobenzene	0.01	17	5
Carbon disulfide	0.02	0.16	5
2-Chloroethylvinylether	0.02	0.23	38
Chlorofluoromethane	0.02	0.12	Conforming Storage Facility
Carbon tetrachloride	--	0.26	B/257
Dichloromethane	0.02	110	2
1,1-Dichloroethane	0.02	26	5
1,2-Dichloroethane	0.03	--	--
1,1-Dichloroethylene	0.01	45	T
1,2-Dichloroethylene	2.8	10	4
1,2-Dichloropropane	0.02	--	--
Ethylbenzene	0.01	72	38
2-Hexanone	0.03	190	38
4-Methyl-2-pentanone	0.16	43	38

Table 1

The Range of Volatile Organic Compounds in Soil at McClellan AFB

Sheet 2 of 2

Volatile Organic Compounds	Concentration Range (mg/kg)		Site or Location With Highest Concentration
	Low	High	
Methylene chloride	1.9	27.2	4
Styrene	0.02	5.9	38
Toulene	0.01	335	4
Trichloroethylene	0.01	350	4
Tetrachloroethylene	0.01	36	4;T
1,1,1-Trichloroethane	0.01	300	2
1,1,2-Trichloroethane	0.01	--	--
1,1,2,2-Tetrachloroethane	0.03	4.7	38
1,1,1,2-Tetrachloroethane	0.01	--	--
Trans-1,2-dichloroethylene	0.01	75	4;T
Total xylenes	0.01	430	38
Vinyl chloride	0.02	52	2

Table 2

The Range of Semi-volatile Organic Compounds in Soil at McClellan AFB

Sheet 1 of 3

Semi-volatile Organic Compounds	Concentration Range (mg/kg)		Site or Location With Highest Concentration
	Low	High	
Anthracene	0.14	5.9	12
Acenaphthene	0.03	100	13
Arochlor 1254	1.2	2	7
Arochlor 1260	1.0	150	10
Butyl benzyl phthalate	0.23	17	4
Bis(2-ethylhexyl)phthalate	0.14	250	4
3,4-Benzofluoranthene	0.6	14	52
Benzo[a]anthracene	0.1	18	DET 42
Benzo[a]fluoranthene	--	112	DET 42
Benzo[b]fluoranthene	0.01	55	DET 42
Benzo[k]fluoranthene	14	117	DET 42
Benzo[g,h,i]perylene	4.1	42	DET 42
Benzo[a]pyrene	0.22	13	52
Benzyl alcohol	--	0.18	11
Benzoic acid	45	69	13
Chlordane	--	0.72	13
4-Chloroaniline	--	7.2	42
Chrysene	0.4	80	DET 42
Di-n-butyl phthalate	0.1	19	2

Table 2
The Range of Semi-volatile Organic Compounds in Soil at McClellan AFB

Sheet 2 of 3

Semi-volatile Organic Compounds	Concentration Range (mg/kg)		Site or Location With Highest Concentration
	Low	High	
Di-n-octyl phthalate	--	0.16	13
Dibenzo[a,h]anthracene	1.2	3.5	52
3,3-Dichlorobenzidine	--	0.19	43
2,4-Dimethylphenol	1.4	11	43
1,4-Dichlorobenzene	0.4	520	4
1,3-Dichlorobenzene	0.1	290	4
1,2-Dichlorobenzene	0.3	280	2
Diethyl phthalate	0.11	4.6	43
Dimethyl phthalate	0.18	1.12	13
2,6-Dinitrotoluene	0.19	1.7	13
Dibenzofuran	0.3	3.5	12
4,4-DDD	--	0.41	52
4,4-DDE	--	0.15	52
Endosulfan I	0.02	0.04	12
Endosulfan sulfate	--	0.67	12
Fluoranthene	0.38	88	DET 42
Fluorene	0.25	5.4	12
Hexachlorobutadiene	--	0.2	38
Hexachloroethane	--	0.15	12

Table 2
The Range of Semi-volatile Organic Compounds in Soil at McClellan AFB

Sheet 3 of 3

Semi-volatile Organic Compounds	Concentration Range (mg/kg)		Site or Location With Highest Concentration
	Low	High	
Indeno[1,2,3-c,d]pyrene	1.2	49	DET 42
Isophorone	--	0.38	B/720
2-Methyl naphthalene	0.10	13	43
4-Methylphenol	0.26	76	2
Naphthalene	0.10	64	2
N-Nitrosodiphenylamine	0.15	1.6	22
4-Nitrophenol	--	3.3	12
2-Nitroaniline	--	0.18	38
Nitrobenzene	--	0.62	22
Pentachlorophenol	--	1.6	10
Phenol	0.02	13	2
Phenanthrene	0.12	54	DET 42
Pyrene	0.24	106	DET 42
1,2,4-Trichlorobenzene	0.6	4.9	4
2,4,5-Trichlorophenol	--	0.12	38

**Table 3
The Range of Metals in Soil at McClellan AFB**

Sheet 1 of 2

Metal	Concentration Range (mg/kg)		Site or Location With Highest Concentration
	Low	High	
Antimony	0.2	330	10
Arsenic	0.4	520	40
Barium	9.0	28399	B/692
Beryllium	0.18	0.28	New IWTP Site
Cadmium	0.1	2100	5
Chromium	1.8	33000	5
Cobalt	1.7	48	B/243
Copper	4.6	5900	10
Lead	2.2	4400	11
Mercury	0.1	29	14
Molybdenum	0.6	3.1	B/1412 W
Nickel	1.5	280	10
Selenium	0.1	17	B/241 W
Silver	0.1	24	IWTP Basin
Thallium	3.1	114	B/360
Vanadium	5.5	78	B/910 (Commissary)
Zinc	9.6	4000	11
Soluble antimony	17	710	22
Soluble cadmium	1.3	9.6	10

Table 3
The Range of Metals in Soil at McClellan AFB

Sheet 2 of 2

Metal	Concentration Range (mg/kg)		Site or Location With Highest Concentration
	Low	High	
Soluble chromium	160	180	5
Soluble cobalt	9.8	20	10
Soluble lead	8.2	670	10
Soluble nickel	26	55	5
Soluble zinc	--	390	10

Table 4
The Range of Total Petroleum Hydrocarbons and Oil and Grease in Soil at McClellan AFB
 Sheet 1 of 1

Component	Concentration Range (mg/kg)		Site or Location With Highest Concentration
	Low	High	
Oil and Grease	280	490	38
Total Petroleum Hydrocarbons (TPH)	0.14	1000000	B/7 CRC Power Plant

Table 5
List of Contaminants by Site in Area A

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
25 Nonhazardous Waste Disposal Pit			NA		110,700	Borings detected no contamination or buried waste.
37 General Refuse Disposal Pit	Toulene Oil and Grease	0.07-0.71 280-490	6	6-50	30,000	Waste material at 3.5 to 8 ft depth.
38 An Engine Repair Facility (Bldg 475)	Acetone Benzene 2-Butaone Chlorobenzene 2-Chloroethylvinylether Chloroform Carbon disulfide Ethylbenzene 2-Hexanone 4-Methyl-2-pentanone Styrene 1,1,2,2-Tetrachloroethane 1,1,1-Trichloroethane Toulene Trichlorethylene Tetrachloroethylene Trans-1,2-dichloroethylene Total xylenes Acenaphthene Bis(2-ethylhexyl)phthalate Dinitrotoluene Dibenzofuran	0.25-2.1 0.01-4.1 0.04-12 15 0.23 0.01-0.1 0.02-0.03 72 190 43 5.9 4.7 0.02-0.56 0.01-17 0.01 0.01 0.01-0.02 1.6-430 0.14 0.14-1.3 0.23 0.10	15	9-70		Much of site is under Building 475.

Table 5
List of Contaminants by Site in Area A

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
38 An Engine Repair Facility (Big 475) (Continued)	Di-n-butylphthalate	0.10-0.13				
	Hexachlorobutadiene	0.2				
	2-Methylnaphthalene	0.58				
	2-Nitroaniline	0.18				
	Penanthrene	0.13				
	2,4,5-Trichlorophenol	0.12				
39 Burn Disposal Burial Pit	Oil and grease	250-540				
	Arsenic	31				
	Barium	160-520			100,000	Borings showed no evidence of contamination or buried waste.
40 Eight Sludge Disposal Pits	Acetone	0.28-0.53	9	3-70	20,900	Sludge-like material to 6 ft depth at 2 southwest drying beds. Deepest samples showed no detectable contamination.
	2-butenone	0.35				
	1,1,1-Trichloroethane	0.02				
	Benzo[a]pyrene	0.22				
	Bis(2-ethylhexyl)phthalate	0.33-0.59				
	Oil and grease	600-730				
Arsenic	45					

NA = Not Available

Note: In addition to the above investigation sites in Area A, 47 uninvestigated sites have been identified.

Table 6

List of Contaminants by Site in Area B

Sheet 1 of 3

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
30 A Radiological Chemical Laboratory	Acetone	0.14-0.17	6	28-60		Site is east of Blg 628. Solvents and low level radioactive wastewater from Blg 628 may have been discharged into the site.
	Chloroform	0.01-0.03				
	Methylene chloride	0.06				
	Toluene	0.02-0.03				
35 A Scrap Metal Burial Pit	Bis(2-ethylhexyl)phthalate	2.9			35,200	Site is west of and under Blg 652. Borings encountered no buried waste or fill material.
	Arsenic	36				
36 A Plating Chemical Storage Area	2-Butanone	0.13-0.35	8	14-67		
	Toluene	0.01-0.02				
	Trichloroethylene	0.02				
	Bis(2-ethylhexyl)phthalate	0.10				
	Oil and grease	370-650				
Cyanide	37					

Table 6
List of Contaminants by Site in Area B

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
47 An Abandoned Plating Shop (Big 666)	Acetone	0.11-0.43	14	7-80		Blg 666 removed.
	Benzene	0.01				
	2-Butanone	0.11-0.16				
	2-Hexanone	0.23				
	Toluene	0.01-0.05				
	1,1,1-Trichloroethane	0.02				
	Trichloroethylene	0.01-0.03				
	Tetrachloroethene	0.01				
	Total xylenes	0.02				
	Bis(2-hexylethyl)phthalate	0.12-0.15				
	Arsenic	26-30				
	Barium	180-250				
	Zinc	1,200				
	48 An Abandoned Industrial Waste Treatment Plant	Acetone				
Chloroform		0.01				
Trichloroethylene		0.03				
Toluene		0.09				
1,1,1-Trichloroethene		0.02				
Bis(2-ethylhexyl)phthalate		0.10				
Arsenic		38				
Barium	170					
Cyanide	0.8					

Table 6

List of Contaminants by Site in Area B

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
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Note: In addition to the above investigated site in Area B, 11 uninvestigated sites have been identified.

Table 7 List of Contaminants by Site in Area C						Sheet 1 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
7 An Industrial Sludge and Burning Pit	Acetone	0.79-4.4	9	6-65	35,340	Pit averages 23 ft deep and contains primarily unburned plastic, paper, metal, cloth, and wood.
	2-Butanone	0.19-1.8				
	Benzene	0.02				
	Chloroform	0.02-0.22				
	Chlorobenzene	0.02				
	Dichloromethane	0.04-0.22				
	Ethyl benzene	0.02-0.09				
	2-Hexanone	0.12-0.47				
	4-Methyl-2-pentanone	0.20-0.21				
	Toluene	0.01-0.17				
	Total xylenes	0.05-0.44				
	Arochlor 1254	2				
	Bis(2-ethylhexyl)phthalate	1.4-19				
	Butyl Benzyl phthalate	0.23				
	Diethyl phthalate	0.12-0.14				
	Di-n-butyl phthalate	0.25-0.37				
	2,6-Dinitrotoluene	0.12				
	4-Methylphenol	0.10				
	N-nitrosodiphenylamine	0.02				
	Phenanthrene	0.11-0.28				
	Phenol	0.02-0.69				
	Oil and grease	0.25-3.4				
	Arsenic	42				
Antimony	150					
Barium	160-230					

Table 7 List of Contaminants by Site in Area C						
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
8 A Disposal Landfill	Acetone	0.32	9	6-80	58,725	Pit averages primarily 20 feet deep and contains previously concrete and asphalt rubble, but also includes wood, plastic, glass, metal, and vegetation.
	Benzene	0.01-0.02				
	2-Butanone	0.21				
	Chloroform	0.03				
	Dichloromethane	0.11				
	Toluene	0.04-0.09				
	Trans-1,2-dichloroethylene	0.14				
	Butyl benzel phthalate	1.3				
	Bis(2-ethylhexyl)phthalate	0.15-0.57				
	Benzo[a]pyrene	0.43				
	3,4 Benzofluoranthene	0.56				
	Chrysene	0.14				
	Diethyl phthalate	0.16				
	Di-N-butyl phthalate	0.1-0.38				
	Dibenzo[a,h]anthracene	1.5				
Di-N-octyl phthalate	0.13-0.37					
Indeno[1,2,3-cd]pyrene	1.2					
Phenanthrene	0.12					
Oil and grease		300-6,170				
9 A Burn Debris Burial Pit	Arsenic	43				Did not contain buried waste or significant sources of contamination.
	Antimony	210				
	Cadmium	11				
	Lead	340				
	Vanadium	140				

Table 7 List of Contaminants by Site in Area C						Sheet 3 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
10 A Burn Debris Burial Pit	Acetone Benzyl alcohol Benzene Chloroform Chorobenzene Dichloromethane 2-Hexanone 4-Methyl-2-pentanone Toluene Trichloroethylene Total xylenes Anthracene Arochlor 1260 Acenaphthene Bis(2-ethylhexyl)phthalate Chrysene Dimethyl phthalate Di-N-butyl phthalate 2,6-Dinitrotoluene Diethyl phthalate 1,3-Dichlorobenzene 1,2-Dichlorobenzene Fluorene Fluroanthene 2-Methyl naphthalene	0.11-0.24 0.34 0.01 0.03-0.89 0.03 0.11-0.13 0.03 0.16 0.03-0.16 0.03 0.02 0.11 1.2-150 0.14 0.63-1.2 0.40 0.24 0.22-1.4 0.17-0.65 0.19-0.47 0.11 0.43 0.23 0.38 0.10-0.14	9	6-70	53,000	Borings showed buried debris averaged 10.5 ft in thickness to an average depth of 15.5 ft consisted of concrete, asphalt, metal, glass, rubber, and carbonaceous (burned) materials.

Table 7
List of Contaminants by Site in Area C

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
10 A Burn Debris Burial Pit (continued)	Naphthalene	0.21				
	Phenol	0.37				
	Pentachlorophenol	1.6				
	Pyrene	0.93				
	Phenanthrene	0.50				
	Oil and Grease	470-34,500				
	Antimony	270-330				
	Barium	180-260				
	Cadmium	96-150				
	Chromium	210-350				
Copper	210-5,900					
Lead	1,100-1,400					
Nickel	280					
Silver	61-80					
Thallium	61-81					
Zinc	2,400-7,900					
Soluable antimony	17					
Soluable cadmium	2-9.6					
Soluable copper	58-110					
Soluable lead	110-670					
Soluable zinc	390					
11 A Burn Debris Burial Pit	Acetone	0.16-3.7	10	10-60	32,400	Borings showed waste averages 6 ft in thickness covered with an average of 11 ft of fill material. Wastes consisted of wood, metal, plastic, and carbonaceous materials.
	2-Butanone	0.19				
	Chloroform	0.01-0.82				
	Chlorobenzene	0.19-0.38				
	Dichloromethane	0.26				
	Ethylbenzene	0.48				
	Toluene	0.02-0.12				
	Total xylenes	0.03-0.07				

Table 7 List of Contaminants by Site in Area C						Sheet 5 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
II A Burn Debris Burial Pit (continued)	3,4-Benzofluoranthene	0.63				
	Benzyl alcohol	0.18				
	Benzoic acid	45				
	Butyl Benzyl phthalate	0.12				
	Bis(2-ethylhexyl)phthalate	0.29-50				
	2,4-Dimethylphenol	1.4-2				
	Dibenzofuran	0.26				
	1,3-Dichlorobenzene	0.27-1.9				
	1,4-Dichlorobenzene	0.49-4.2				
	1,2-Dichlorobenzene	0.93-6.0				
	Dimethyl phthalate	0.34				
	Diethyl phthalate	0.11-0.14				
	Di-N-butyl phthalate	0.10-3.1				
	Fluorene	0.24				
	Fluoroanthene	2.9				
	2-Methyl naphthalene	0.62-0.81				
	4-Methylphenol	0.53-1.2				
	2-Methylphenol	0.23-0.87				
	Naphthalene	0.34-0.44				
	N-nitrosodiphenylamine	0.15-0.40				
Pyrene	0.24					
Phenanthrene	0.11-0.37					
Oil and grease		200-8,100				

Table 7
List of Contaminants by Site in Area C

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
11 A Burn Debris Burial Pit (continued)	Arsenic	27				
	Antimony	160				
	Barium	210-400				
	Cadmium	33-49				
	Chromium	320-1,400				
	Copper	440-960				
	Lead	400-4,400				
	Mercury	15				
	Thallium	61				
	Zinc	4,000				
	Soluble chromium	160				
Soluble lead	8.2-35					
12 A Burn Debris Burial Pit	Acetone	0.11-1.1	9	5.5-80	30,500	Borings showed waste averages 11.6 ft in thickness covered with an average of 7 ft of fill material. Wastes consisted of wood, metal, glass, wire, and plastic.
	2-Butanone	0.30				
	Chlorobenzene	0.03-7.3				
	Chloroform	0.01-0.05				
	Dichloromethane	0.02-0.21				
	1,1-Dichloroethylene	2.2				
	1,1-Dichloroethane	0.01				
	Ethylbenzene	0.18-0.27				
	Toluene	0.05-0.26				
	Trichloroethylene	1.7				
	Total xylenes	0.72-1.4				
	Anthracene	5.9				
	Acenaphthene	0.31-3.2				

Table 7 List of Contaminants by Site in Area C						Sheet 7 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
12 A Burn Debris Burial Pit (continued)	Butyl benzyl phthalate	0.74				
	Bis(2-ethylhexyl)phthalate	0.12-1.0				
	Benzo[a]anthracene	1.2				
	Benzo[ghi,1]perylene	4.1				
	Benzo[a]pyrene	0.43				
	Benzo[e]anthracene	0.15				
	Benzoic acid	0.35				
	Chrysene	12				
	Di-N-butyl phthalate	0.14-3.4				
	1,4-Dichlorobenzene	1.4				
	1,2-Dichlorobenzene	2.8				
	Diethyl phthalate	0.11-0.26				
	Dimethyl phthalate	0.18				
	2,6-Dinitrotoluene	0.20-0.42				
	Dibenzofuran	3.5				
	Endosulfan I	0.02-0.04				
	Endosulfan sulfate	0.67				
	Fluoranthene	28				
	Fluorene	5.4				
	Hexachloroethane	0.15				
Indeno[1,2,3-cd]pyrene	4.8					
2-Methyl naphthalene	0.36-0.72					
4-Methylphenol	0.26					
Naphthalene	0.15-1.2					
N-Nitrosodiphenylamine	0.10-0.11					
4-Nitrophenol	3.3					
Phenol	0.26					
Phenanthrene	36					

Table 7 List of Contaminants by Site in Area C							Sheet 8 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
12 A Burn Debris Burial Pit (continued)	Oil and grease	240-10,500					
	Antimony	210					
	Barium	150-160					
	Cadmium	11-52					
	Copper	140-1,200					
	Lead	140-620					
	Thallium	51					
	Zinc	2,700					
	Soluble lead	10-28					
	13 Burn Debris Burial Pit	Acetone					0.13-76
2-Butanone		0.18-43					
Chlorobenzene		0.01-0.02					
Dichloromethane		0.03-0.15					
Ethylbenzene		0.04-2.5					
2-Hexanone		2.6-4.9					
Styrene		0.02					
Toluene		0.01-1.1					
Total xylenes		0.04-1.5					
Arochlor 1260		1-1.8					
Acenaphthene		100					
Bis(2-ethylhexyl)phthalate		0.36-2.4					
Benzoic acid		0.20					
Chrysene	0.17						
Chlordane	0.72						
4-Chloroaniline	0.27						
Di-N-butyl phthalate	0.24-0.42						
Diethyl phthalate	0.11-0.17						

Table 7 List of Contaminants by Site in Area C						Sheet 9 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
13 Burn Debris Burial Pit (continued)	1,2-Dichloroethene 1,4-Dichlorobenzene 2,6-Dinitrotoluene 2,4-Dimethylphenol Fluoroanthene 2-Methyl naphthalene 4-Methylphenol 2-Methylphenol N-nitrosodi-N-propylamine Naphthalene N-nitrodiphenylamine Pyrene Phenanthrene Phenol Pentachlorophenol Oil and grease Arsenic Barium Cadmium Chromium Copper Lead Soluable antimony Soluable cadmium Soluable lead	0.11-0.36 0.12 1.7 0.4 0.16 0.18-0.25 0.95 0.35 0.95 0.21-0.31 0.10-2.2 0.15 0.19 0.22 0.34 560-7,500 26-50 170-280 26-51 280-340 120-300 290-360 300 3 9.2				

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
14 A Burn Debris Burial Pit	2-Butanone	0.12				
	Chloroform	0.05				
	Chlorobenzene	0.01-0.05				
	Dichloromethane	0.05-0.14				
	Styrene	0.02				
	Toluene	0.02-0.04				
	Total xylenes	0.10-0.25				
	Acenaphthene	0.21				
	Anthracene	0.15				
	Butyl benzyl phthalate	0.27-0.37				
	Bis(2-ethylhexyl)phthalate	0.18-11				
	Benzyl alcohol	0.1				
	Dimethyl phthalate	0.22-0.88				
	2,6-dinitrotoluene	0.1				
	Di-n-butyl phthalate	0.1-1.3				
	Dibenzofuran	0.23				
	Diethyl phthalate	0.23-0.30				
	1,4-Dichlorobenzene	0.61				
	1,2-Dichlorobenzene	0.14-0.84				
	Di-N-butyl phthalate	0.20				
	Di-N-octyl phthalate	0.16				
	Fluoranthene	0.43				
	Fluorene	0.30				
2-Methyl naphthalene	0.14-0.18					
Naphthalene	0.12-0.22					
N-Nitrosodiphenylamine	0.18-1.4					
Phenanthrene	0.20-1.3					
Phenol	0.13					

Table 7
List of Contaminants by Site in Area C

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
14 A Burn Debris Burial Pit (continued)	Oil and grease Arsenic Antimony Barium Cadmium Copper Lead Mercury Thallium Zinc	360-4,100 43-47 220-310 170-330 19-49 350-730 900-970 29 71-81 1,100-3,100				
15 Backhoe Trench	Soluable cadmium Soluable lead	3.6 13-89				Site used for disposal of sodium valves. Site did not contain buried waste or significant sources of contamination.
16 Backhoe Trench						Site used for disposal of sodium valves. Site did not contain buried waste or significant sources of contamination.
17 A Burn Debris Burial Pit						Site used for disposal of sodium valves. Site did not contain buried waste or significant sources of contamination.
18 A Brun Debris Burial Pit						Used for disposal of Sodium valves. Site did not contain buried waste or significant sources of contamination.

Table 7
List of Contaminants by Site in Area C

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
19 A Burn Debris Burial Pit						Used for disposal of Sodium valves. Site did not contain buried waste or significant sources of contamination.
20 Sludge/Oil Pit						Used for disposal of Sodium valves. Site did not contain buried waste or significant sources of contamination.
21 Sludge/Oil Pit						Used for disposal of Sodium valves. Site did not contain buried waste or significant sources of contamination.
22 A Burn Debris Burial Pit	Acetone Benzene 2-Butanone Chlorobenzene Chloroform Dichloromethane Ethylbenzene 2-Hexanone 4 Methyl-2-pentanone Trichloroethylene Tetrachloroethylene Toluene Trans-1,2-dichloroethylene Total xylenes	0.24-1.1 0.02-0.19 6.3 0.02-6 0.01-0.04 0.03 0.14-3.4 13 1.8 0.05-28 0.05 0.01-5.2 0.04-0.54 0.38-13	10	5-80	40,000	Borings showed waste 14.5 to 24 feet in thickness consisting of metal, wire, concrete, asphalt, rubble, burned wood, glass, rubber, and sludge-like material. Site is south of and parallel to Industrial Wastewater Treatment Plant blending ponds.

Table 7
List of Contaminants by Site in Area C

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
22 A Burn Debris Burial Pit (continued)	Acenaphthene	0.03-0.34				
	Arochlor 1260	1				
	Anthracene	0.76				
	Benzoic acid	69				
	Butyl benzyl phthalate	0.13-0.22				
	Bis(2-ethylhexyl)phthalate	0.55-6				
	Benzo[a]anthracene	2				
	Benzo[a]pyrene	1.4				
	Benzo[k]fluoranthene	2				
	Benzo[g,h,i]perylene	1.1				
	3,4-Benzofluoranthene	1.1				
	Chrysene	1.7				
	Dimethyl phthalate	1.12				
	Diethyl phthalate	0.38				
	Dibenzo[a,h]anthrocene	1.27				
	1,4-Dichlorobenzene	0.77				
	1,2-Dichlorobenzene	0.16-43				
	Di-N-butyl phthalate	0.17-0.55				
	Di-N-octyl phthalate	0.14				
	2,4-Dimethylphenol	1.9-22				
	Fluorene	0.17-0.51				
	Fluoroanthene	3.8				
Indeno[1,2,3-cd]pyrene	1.3					
2-Methyl naphthalene	0.20-13					
4-Methylphenol	3.7-4.2					
2-Methylphenol	1.6-1.7					
N-nitrosodiphenylamine	0.90-1.6					
Naphthalene	1.3-4.9					
Nitrobenzene	0.62					
Phenanthrene	0.16-3.2					
Pyrene	2.9					
Phenol	1.3-1.4					

Table 7 List of Contaminants by Site in Area C							Sheet 14 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
22 A Burn Debris Burial Pit (continued)	Oil and grease Antimony Arsenic Barium Cadmium Copper Lead Vanadium Zinc Soluable antimony	780-6,400 130 36-58 160-1,400 35-55 390-2,600 1,400-2,000 110 1,100-1,900 710					
28 Magpie Creek Debris Sludge Pit						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination.	
32 A Hazardous Waste Storage Area						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination.	
41 A Waste Disposal Fill	Acetone 2-Butanone Chloroform Toluene Tetrachloroethylene	0.14-1.9 0.39 0.01 0.01-0.05 0.01-0.02	10	2-80		Borings showed most of the buried debris has been removed from the site. Site is west of and may be under Bldg 704.	

Table 7
List of Contaminants by Site in Area C

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
41 A Waste Disposal Fill (continued)	Bis(2-ethylhexyl)phthalate	0.30-1.6	18	3-84	34,650	Borings showed oily dissolved soil at the oil storage ponds. Borings at the burn pit showed buried debris from 1 to 9 feet deep containing burn burn debris, wood, plastic, and metal.
	Di-N-butyl phthalate	0.11-0.46				
	1,4-Dichlorobenzene	0.20-0.41				
	1,2-Dichlorobenzene	0.25-0.47				
	N-nitrosodiphenylamine	0.14-0.22				
	Arsenic	0.04-0.06				
42 Three Oil Storage Ponds/ Refuse Burn Pit/ Waste Fuel Burning Pit	2-Butanone	0.13-0.40	18	3-84	34,650	Borings showed oily dissolved soil at the oil storage ponds. Borings at the burn pit showed buried debris from 1 to 9 feet deep containing burn burn debris, wood, plastic, and metal.
	Benzene	0.02-0.04				
	Chloroform	0.01-0.34				
	Chlorobenzene	0.01-2.1				
	1,2-Dichloroethane	0.03-0.36				
	1,1-Dichloroethane	0.05				
	1,2-Dichloropropane	1.8				
	Dichloroethane	0.01				
	1,3-Dichloropropylene	0.05				
	Dichlorobromomethane	0.03				
	Ethylbenzene	0.06-7.6				
	2-Hexanone	3.5				
	4-Methyl-2-pentanone	6.4				
	Styrene	0.41-0.46				
	Toluene	0.02-7.4				
Trichloroethylene	0.03-4.5					
Tetrachloroethylene	0.01-2.5					
Trans-1,2-dichloroethylene	0.01-3.4					
1,1,1-Trichloroethane	0.08					
Total xylenes	0.24-38					

Table 7
List of Contaminants by Site in Area C

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
42 Three Oil Storage Ponds/ Refuse Burn Pit/ Waste Fuel Burning Pit (continued)	Arochlor 1254	1.2				
	Acenaphthene	0.15				
	Benzoic acid	0.47-1				
	Bis(2-ethylhexyl)phthalate	0.20-7.5				
	4-Chloroaniline	0.12				
	2,4-Dimethylphenol	0.14-0.46				
	1,4-Dichlorobenzene	0.22				
	1,2-Dichlorobenzene	0.34-0.48				
	Diethyl phthalate	0.16				
	Di-N-butyl phthalate	0.18-0.75				
	2,6-Dinitrotoluene	0.52-0.69				
	Dibenzofuran	0.10-1.2				
	Fluorene	0.24-0.56				
	2-Methyl naphthalene	8-13				
	4-Methylphenol	0.24-3.5				
	2-Methylphenol	0.54				
	Naphthalene	0.17-3.2				
	N-nitrosodiphenylamine	0.22-0.28				
	Phenol	0.59-0.99				
	Phenanthrene	0.16-0.52				
Oil and grease	230-9,600					
Arsenic	29-36					
Barium	190-240					
Cadmium	20					
Copper	6,600					
Lead	670					
Silver	54					
Soluble cadmium	1.3					
Soluble lead	80					

Table 7 List of Contaminants by Site in Area C						Sheet 17 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
43 A Waste Disposal Pit	Acetone Benzene Chlorobenzene Chloroform 2-Chloroethylvinyl ether Dichloromethane Ethylbenzene 2-Hexanone Toluene Total xylenes Acenaphthene Anthracene Arochlor 1254 Benzyl alcohol Butyl benzyl phthalate Bis(2-hexylethyl)phthalate Benzo[a]pyrene Benzoic acid Benzo[a]anthracene Chrysene 4-Chloroaniline 2,4-Dimethylphenol Dibenzofuran 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,4-Dichlorobenzene Di-N-butyl phthalate Diethylphthalate Dimethylphthalate 3,3-Dichlorobenzidine	0.13-0.51 0.05-0.08 0.04-7.9 0.01-0.03 0.02 0.06-0.16 0.34-0.49 0.13 0.02-0.52 0.66-2.3 0.37 0.31-0.46 4.6 0.33 0.23-0.49 0.37-51 0.43 48 0.51-1.1 0.51-1.5 7.2 1.3-11 0.51 0.61-2.4 1.1-20 3.6-11 0.12-2.7 0.22-4.6 0.14 0.19	9	5.5-70	20,250	Borings showed waste averages 10.3 ft in thickness and consisted of buried wood, metal, wire, glass, and plastic.

Table 7 List of Contaminants by Site in Area C							Sheet 18 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
43 A Waste Disposal Pit	2,4-Dinitrotoluene	0.36-1					
	Floranthene	0.34					
	Fluorene	0.38-0.96					
	2-Methyl naphthalene	1.3-3.8					
	4-Methylphenol	2.4-3.5					
	2-Methylphenol	0.45					
	Naphthalene	1.5-6.1					
	Nitrobenzene	0.75					
	N-Nitrosodiphenylamine	0.15-1.1					
	Phenanthrene	1.4-1.8					
	1,2,4-Trichlorobenzene	0.60-1.9					
	Oil and grease	900-17,000					
	Antimony	180-200					
	Arsenic	40					
Barium	170-230						
Chromium	210-340						
Cadmium	36-110						
Copper	400-1,100						
Lead	780-1,500						
Nickel	210						
Thallium	61-71						
Soluble cadmium	7.4						
Soluble lead	9.7-110						
49 A Possible Burial Pit						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination.	

Table 7 List of Contaminants by Site in Area C							Sheet 19 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
50 Settling Pond						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Located northwest of Bldg 704.	
51 Holding Pond						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Located northwest of Industrial Wastewater Treatment Plant.	
52 A Burial Pit	Acenaphthene Anthracene Bis(2-ethylhexyl)phthalate Benzo[a]anthracene Benzo[k]fluoranthene Benzo[a]pyrene Benzo[g,h,i]perylene 3,4-Benzofluoranthene Chrysene Dibenzofuran 4,4-DDD 4,4-DDE Dibenzo[a,h]anthracene Fluoroanthene Fluorene Indeno[1,2,3-cd]pyrene 2-methyl naphthalene Naphthalene	0.97 1.2 0.47 7.6 14 13 8.7 14 6.2 0.5 0.41 0.15 3.5 4.1 0.67 11 0.25 2.3	9	9-50		Borings showed buried debris 3 feet thick in one area and fill material to 18 feet in another. Located northwest of Bldg 704.	

Table 7 List of Contaminants by Site in Area C							Sheet 20 of 24
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
52 A Burial Pit (continued)	Barium Cadmium Lead Soluble cadmium Soluble lead	161-185 20 106 2.4 13					
53 Settling Pond						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Site located northwest of Bldg 704.	
54, 55, & 56 Storage Areas						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Site located south of Bldg 704. Site contained a possible burial pit.	
57 A Possible Burial Pit						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Site located south of Bldg 704.	
60 Holding Pond						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Site located southwest of Industrial Wastewater Treatment Plant.	

Table 7
List of Contaminants by Site in Area C

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
61 & 62 Possible Chemical Waste Pit						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Site located southeast of Bldg 704.
63 & 64 Unlined Ditches						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Site located southeast of Bldg 704.
65 Possible Burial Pit						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Site located east of Bldg 692.
66 Possible Ditch and a Pond						Borings showed site did not contain buried waste or did not appear to be a significant source of contamination. Site located west of Bldg 721.
67 A Burial Disposal Area	Benzene Dichloroethane Ethylbenzene Trichloroethylene Toluene Trans-1,2-dichloroethylene Total xylenes Vinyl chloride	0.11 0.87 0.22 0.84-1.6 0.16-0.63 3 0.84 1.8	10	9-80		Borings showed site contained buried debris at an average depth of 2 ft. Debris consisted of metal, glass, paper, plastic, concrete, and burned material. Located northwest of Bldg 702.

Table 7
List of Contaminants by Site in Area C

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
67 A Burial Disposal Area (continued)	2,4-Dimethylphenol	4.1-9.5					
	1,3-Dichlorobenzene	0.75-0.89					
	1,4-Dichlorobenzene	2.6-4.4					
	1,2-Dichlorobenzene	6.7-21					
	Di-N-butyl phthalate	1.9					
	Indeno[1,2,3-cd]pyrene	0.31					
	2-Methyl naphthalene	3.2					
	4-Methyl phenol	5.1					
	2-Methyl phenol	4.1					
	Naphthalene	2.9-4.0					
	Phenanthrene	1.3					
	Pyrene	0.18-1					
	TPH		49-2,500				
	Arsenic		67				
	Barium		165-174				
	Cadmium		11-24				
	Copper		201				
Lead		190-419					
Vanadium		155					
Soluble cadmium		3					
Soluble lead		10-71					
68 Four Ponds	Chlorobenzene	0.21	9	4-80		Borings encountered sludge-soil mixture. Site located west of site 42 and under Industrial Wastewater Treatment Plant.	
	1,2-Dichloroethane	0.64					
	Trichloroethylene	0.37					
	Total xylenes	0.40					

Table 7

List of Contaminants by Site in Area C

Sheet 23 of 24

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
68 Four Ponds (continued)	Bis(2-ethylhexyl)phthalate 4,4-DDE 4,4-DDD 1,4-Dichlorobenzene 1,2-Dichlorobenzene 2-Methyl naphthalene	2.6 0.01 0.01 0.21 1.5 0.32 0.61				
	TPH	230				
	Barium	185				
69 Two Burn Debris Burial Pits	Benzene Chlorobenzene Ethylbenzene Trans-1,2-dichloroethylene Trichloroethylene Toluene Total xylenes Vinyl Chloride Bis(2-ethylhexyl)phthalate 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichlorobenzene Diethyl phthalate Di-N-butyl phthalate 2,4-Dimethylphenol Fluoroanthene	0.11 0.92-6.1 0.14-0.34 0.21-0.37 0.42-0.44 0.48 0.37-1.7 0.26-0.85 2-2.7 0.62 0.84-6 3-8.7 0.14 0.47 1.7-2.9 0.15	9	6.5-70	31,500	Borings in east pit showed buried debris from 2.5 to 16 ft and borings in wet pit showed buried debris from 11 to 9.5 feet. Debris consisted of metal, plastic, rubber, concrete, and wood.

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
69 Two Burn Debris Burial Pits (continued)	2-Methyl naphthalene 4-Methylphenol 2-Methylphenol Naphthalene Phenol Phenanthrene Pyrene Hydrocarbons Barium Cadmium Chromium Copper Lead Soluable cadmium Soluable lead	0.35-1.7 0.86-2.3 0.62-1.2 1.7 0.16-0.87 0.20 0.25 65 163-178 11-87 225 142-501 540-2,770 5.7 9.8-20				

Table 8
List of Contaminants by Site in Area D

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
1 A Refuse/Solid Waste Burn and Burial Pit	Ethylbenzene	1.2	3	5-15	10,500	Borings showed waste zone averaged 2 to 18 feet in depth containing refuse and debris.
	Methylene chloride	7.6				
	Toluene	2.9				
	Total xylenes	2.2				
	Bis(2-ethylhexyl)phthalate	1.4-28				
	Cadmium	150				
	Lead	1,000-2,000				
2 An Undewatered Industrial Wastewater Sludge Disposal and Burn Pit	1,1-Dichloroethane	0.27-110	6	5-55	20,000	Borings showed waste zone averaged 4 to 11 feet in depth containing refuse and debris.
	1,1-Dichloroethylene	6.8				
	Ethylbenzene	8.2-19				
	4-Methyl-2-pentanone	0.90-18				
	Tetrachloroethylene	0.28-19				
	Trichloroethylene	1.3-79				
	Toluene	2.4-330				
	1,1,1-Trichloroethane	2.5-330				
	1,2-Trans-dichloroethylene	1.3-73				
	Total xylenes	3.7-92				
	Vinyl chloride	15				
	Bis(2-ethylhexyl)phthalate	5-180				
	1,2-Dichlorobenzene	66-380				
1,3-Dichlorobenzene	3-12					
1,4-Dichlorobenzene	7-46					
4-Methylphenol	76					
Naphthalene	6-64					
Phenol	13					
Phenanthrene	0.25					

Table 8 List of Contaminants by Site in Area D							Sheet 2 of 7
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
2 Sludge Disposal and Burn Pit (continued)	Chromium	2,800-31,000	5	5-32	50,700	Borings showed waste zone averaging 2 to 19 feet in depth containing refuse, debris, and sludge.	
	Lead	1,000-1,700					
	Soluble cadmium	3.1					
	Soluble lead	6.3-23					
	Soluble nickel	26					
3 An Undewatered Industrial Waste-water Sludge Disposal and Burn Pit	Ethylbenzene	3.2					
	4-Methyl-2-pentanone	0.49					
	Toluene	0.40					
	Total xylenes	8.5					
	Anthracene	0.44					
	Benzo[a]anthracene	0.37					
	Bis(2-ethylhexyl)phthalate	0.97-24					
	Benzo[k]fluoranthene	2.9					
	3,4-Benzofluoranthene	2.9					
	Chrysene	0.22-0.76					
	1,2-Dichlorobenzene	0.38					
	1,4-Dichlorobenzene	0.18					
	Di-n-butylphthalate	19					
	Fluoranthene	0.12-1.8					
	Fluorene	0.17					
Naphthalene	1.2						
Phenanthrene	0.13-1.6						
Pyrene	0.15-2						
Lead	2,100						
Soluble lead	23-36						

Table 8
List of Contaminants by Site in Area D

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
4 An Undewatered Industrial Waste-water Sludge Disposal and Burn Pit	Acetone	6.7-370			1,500	Borings showed waste zone averages 10 to 20 feet in depth containing sludge.
	2-Butanone	13				
	Benzene	2.1-50				
	Chlorobenzene	0.63-12				
	1,1-Dichloroethane	0.32-49.6				
	1,1-Dichloroethylene	0.49-4.5				
	1,2-Dichloroethylene	2.8-10				
	Ethylbenzene	0.37-27.2				
	4-Methyl-2-pentanone	0.67-3.1				
	Methylene chloride	19.3-27.2				
	1,1,1-Trichloroethane	0.23-190				
	1,2-Trans-dichloroethylene	0.14-75				
	Tetrachloroethylene	0.12-36				
	Trichloroethylene	14.8-350				
	Toluene	0.36-335				
	Total xylenes	0.70-35				
	Anthracene	1.5-2.6				
	Acenaphthene	1-1.6				
	Bis(2-ethylhexyl)phthalate	1.4-250				
	Butyl-benzophthalate	17				
1,2-Dichlorobenzene	31-76.1					
1,3-Dichlorobenzene	290					
1,4-Dichlorobenzene	520					
Fluoranthene	1.6-2.4					
Naphthalene	3.6-46.8					
Phenanthrene	2.1-2.6					
1,2,4-Trichlorobenzene	4.9					

Table 8
List of Contaminants by Site in Area D

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
5 An Undewatered Industrial Waste-water Sludge Disposal and Burn Pit	Acetone	6.5	6	10-50	15,600	Borings showed waste zone averaged 10 to 20 feet in depth containing sludge.
	Benzene	0.16				
	Carbon disulfide	0.16				
	Chlorobenzene	3-17				
	1,1-Dichloroethane	3.1-26				
	1,1-Dichloroethylene	0.45-1.7				
	Ethylbenzene	3.4-45				
	2-Hexanone	1.3				
	Methylene chloride	1.9				
	4-Methyl-2-pentanone	1-10				
	1,1,1-Trichloroethane	2.9-58				
	Tetrachloroethylene	0.68-11				
	Trichloroethylene	0.21-31				
	1,2-Trans-dichloroethylene	2-21				
	Toluene	2.3-150				
	Total xylenes	11-140				
	Bis(2-ethylhexyl)phthalate	100-150				
	1,2-Dichlorobenzene	9.4-10				
	1,4-Dichlorobenzene	1.3				
	Di-n-butylphthalate	14				
Naphthalene	1.9-22					
Cadmium	2,100					
Chromium	33,000					
Copper	4,200					
Lead	4,500					

Table 8 List of Contaminants by Site in Area D							Sheet 5 of 7
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
6 A Skimmed Oil Burn Area	Soluble cadmium	2.7					
	Soluble chromium	160-180					
	Soluble lead	7.8-14					
	Soluble nickel	55					
	Total xylenes	0.57	6	5-7.5	7,500	Borings found no waste at this site.	
S A Fuel and Solvent Disposal Pit	Acetone	46-65				Borings showed waste averaged 4 to 15 feet in depth containing sludge.	
	Ethylbenzene	0.80-3.9					
	4-Methyl-2-pentanone	3.2-4.4					
	1,1,1-Trichloroethane	0.63					
	1,2-Trans-dichloroethylene	0.38					
	Tetrachloroethylene	0.27-0.33					
	Toluene	0.47-14					
	Trichloroethylene	0.19					
	Total xylenes	3.9-18					
	Vinyl chloride	0.74					
	Bis(2-ethylhexyl)phthalate	6.5-26					
	1,2-Dichlorobenzene	5.5-33					
	1,3-Dichlorobenzene	1.2-3.4					
	1,4-Dichlorobenzene	2-7					
Fluoranthene	1.2						
Naphthalene	2.8-7.5						

Table 8 List of Contaminants by Site in Area D						Sheet 6 of 7
Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
T A Fuel/Solvent/ Sludge Disposal Pit	Acetone	19	3	10-13	8,400	Borings showed waste averaged 4 to 9 feet in depth containing sludge.
	Chlorobenzene	0.30				
	1,1-Dichloroethane	0.14-5.7				
	1,1-Dichloroethylene	0.40-4.5				
	Ethylbenzene	2.2-5				
	4-Methyl-2-pentanone	4.7-5.6				
	Tetrachloroethylene	4.1-36				
	Trichloroethylene	6.1-23				
	1,1,1-Trichloroethane	23-190				
	1,2-Trans-dichloroethylene	0.10-75				
	Toluene	19-30				
	Total xylenes	8.2-16				
	Bis(2-ethylhexyl)phthalate	16-256				
	1,2-Dichlorobenzene	100-290				
	1,3-Dichlorobenzene	12-42				
1,4-Dichlorobenzene	17-520					
Naphthalene	9.5-10					
Cadmium	170					
Soluble cadmium	9.8					
Soluble lead	9.3-22					
Soluble nickel	43					
26 An Undewatered Industrial Waste- water Sludge Pit	1,1-Dichloroethylene	0.57		to 68	40,000	Borings did not encounter waste other than gravelly or cobbly fill.
	Trichloroethane	0.76				
	Trichloroethylene	0.93				

Table 8

List of Contaminants by Site in Area D

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
26 An Undewatered Industrial Wastewater Sludge Pit (continued)	Barium Nickel Vanadium	found found found				
27 A Sodium Value Disposal Pit						Site not found during investigation.
33 An Industrial Wastewater Sludge Landfarm						No borings were drilled where landfarming reportedly took place. Shovel excavations had low level of VOC readings on HNU.

Table 9

List of Contaminants in Other Areas

Sheet 1 of 2

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
23 A Burial Pit	Acetone 2-Butanone Chloroform Ethylbenzene Methylene chloride Trans-1,2-dichloroethylene Tetrachloroethylene 1,1,1-Trichloroethane Toulene Total xylenes Diphenylamine 2-Methyl naphthalene Phenanthrene Pentachlorophenol Oil and Grease Arsenic Barium	0.22 0.74 0.02-0.06 0.11 0.06 0.02-0.03 0.01 0.01 0.03 0.66 28 6.2 14 6.4 2,800 30-36 170	6	5-60	60,200	Reportedly the wastes were removed and disposed off site in 1970 prior to construction of Bldg 781. However to the north of and under Bldg 781 at 5 to 12 ft deep, construction debris, such as concrete, metal, wood, and asphalt, was found during Bldg 781 construction.
24 Ademolition and Scrap Material Burning and Burial Pit	Chloroform Chloroethane Chlorobenzene 1,2-Dichloroethane 1,1-Dichloroethane Ethylbenzene Toluene Trans-1,2-dichloroethylene Trichloroethylene Total xylenes Benzo[a]pyrene Bis (2-ethylhexyl)phthalate	0.01-0.02 0.03 0.14 0.03 0.02 0.03-0.27 0.01-0.34 0.02-0.08 0.10 0.76 1.2 0.11-2.8	9	8.5-79	49,600	Borings showed waste zone ranged from 3 to 20.5 feet in depth consisting of carbonaceous material, plastic, glass, wire, wood, concrete rubble, sludge, and metal strapping.

Site No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
24 A Demolition and Scrap Material Burning and Burial Pit (continued)	Diethyl phthalate	25				
	Diphenylamine	1.8				
	Pentachlorophenol	1.7				
	Oil and grease	430-18,000				
	Barium	210-660				
	Cadmium	11-56				
	Copper	210-930				
29 An Aircraft Generator Burial Pit	Lead	170-1,200				
	Zinc	1,800				
	Soluable lead	31-35				
31 Airfuse Incinerator					40,000	Borings showed no buried waste or fill material. Site located northeast of Bldg 700 and north of Civil Engineering storage yard.
					40,000	Borings showed no buried waste or incinerator ash.
34 Underground Waste Solvent Tanks	Acetone	0.31-0.45	6	20-70	10,000	Tanks reportedly located 1,300 ft east of Bldg 640.
	Dichloromethane	0.02-0.07				
	Toluene	0.10				
45 A Waste Paint Burial Pit	Bis(2-ethylhexyl)phthalate	0.14-0.41			75,000	Borings showed undisturbed soil and no buried waste or fill material.
	Benzo[a]pyrene	0.55				
	Beryllium	1.5				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Site 25 & Site 54	Anthracene Naphthalene Antimony Barium Cadmium Cobalt Chromium Copper Nickel Lead Silver Thallium Vanadium Zinc	0.19 1.1 3.0-5.5 37.4-112 1-3 3.5-9.6 5.6-25.7 6.8-19.4 6.8-15.8 6.8-70.2 0.6-1.7 22-35.5 14.4-32.2 15.2-90.1	9	1-15	--	Three borings for "Maintain Storm Drainage" at the south end of the runway. EMC 45.
B/1071 Staging Area	Bis(2-chloroethoxy)methane Bis(2-ethylhexyl)phthalate TPH Arsenic Barium Cobalt Chromium Copper Mercury Nickel Lead Thallium Vanadium Zinc	0.10 0.10-0.30 34 6.8-12.1 36.1-130 5.8-7.8 11.5-15.6 10.3-19.8 1.1-1.4 6.9-34 5.1-8.3 35.2-61 15.1-36.8 11.9-34.4	6	1-10	--	Staging area is located north and west of B/1071. EMC 47.

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/523 UST	Benzene Ethylbenzene Toluene Total xylenes Fluorene 2-Methylnaphthalene Naphthalene Phenanthrene TPH Barium Copper Zinc	0.04-34 0.03-1.7 0.53-81 0.01-1.6 0.49 3.4 1.7 0.53 0.03-756 0.2 0.9 0.7	4	10	--	Samples taken southeast of B/523 in support of UST B/523 removal. EMC 43.
UST B/655 S B/6008A B/3 B/338 B/617	Bis(2-ethylhexyl)phthalate Fluoranthene Pyrene Phenathrene TPH Antimony Arsenic Barium Beryllium Cadmium Cobalt Chromium Copper Mercury Molybdenum Nickel Lead Thallium Vanadium Zinc	0.37-1.1 0.27-0.58 0.30-0.63 0.12-0.18 50-470 1.9-2.6 7.5-12.9 33.7-153 0.3-0.4 0.5-1.2 6.2-7.8 10.6-24.1 17.1-32.2 0.7-3.0 0.6-1.2 13.7-25.5 6.7-40 5.1-17.9 17.4-43.3 35.9-104		0.25-2		Samples taken in support of UST removal. EMC 46.

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/652	Bromodichloromethane	0.02		1-15		Locations of samples are: 1) west of B/652, 2) west of B/647, 3) southwest of B/692, 4) southwest of B/721, 5) west of B/722, 6) west of B/722, 8) southeast of B/1080, 9) north of B/1088 and northeast of B/1086, 11) east of B/489, 13) north of B/1082, and 14) north of Control Tower on Site P7. EMC 6.
B/647	Carbon tetrachloride	0.02				
B/692	Chlorobenzene	0.02				
B/721	Chloroform	0.02				
B/722	Ethylbenzene	0.02-0.03				
B/1080	Tetrachloroethylene	0.02				
B/1086	Trichlorofluoromethane	0.14				
B/489	Toluene	0.04-0.17				
B/1092	Total xylenes	0.04-0.11				
Site P7	Bis(2-ethylhexyl)phthalate	0.64-3.9				
	Butyl benzyl phthalate	0.18-0.63				
	Di-N-butyl phthalate	0.15-0.27				
	Fluoranthene	0.26-0.27				
	Pyrene	0.18-0.49				
	Antimony	0.13-1.52				
	Arsenic	3.7-62				
	Barium	19.7-148				
	Beryllium	0.13-0.41				
	Cadmium	0.11-1.7				
	Cobalt	1.7-10.4				
	Chromium	3.5-17.5				
	Copper	9.7-95.5				
	Mercury	0.13-1.3				
	Molybdenum	0.27-2.4				
	Nickel	3.5-21				
	Lead	3.4-65.7				
	Silver	0.14-0.7				
	Selenium	3-11				
	Thallium	9.6-59.8				
	Vanadium	9.8-40.4				
	Zinc	9.6-62				

Table 10

List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/375	Benzene Toluene Total xylenes Anthracene Acenaphthene Bis(2-ethylhexyl)phthalate Benzo[b]fluoranthene Benzo[k]fluoranthene Butyl benzyl phthalate Benzo[a]anthracene Chrysene Fluoranthene Fluorene Naphthalene Pyrene Arsenic Antimony Barium Beryllium Cadmium Cobalt Chromium Copper Mercury Molybdenum Nickel Lead Silver Selenium Thallium Vanadium Zinc	0.01-0.03 0.05-0.14 0.04-0.18 0.04 0.02 0.13-0.71 0.03 0.04 0.04 0.03-0.05 0.03-0.04 0.24 0.02 0.02 0.08-0.20 <0.01-3.4 0.09-1.4 17.9-115.5 0.07-0.20 0.01-1.5 2.1-4.3 2.5-17.3 10-193 1-3.3 0.06-0.93 1.5-8.1 2.4-32.9 0.21-0.96 0.2-0.6 3.2-5.0 5.5-15.1 14-121.3	12	1-10	--	Samples taken south of Building 375. EMC 1.
UST B/405	TPH	80	1		--	Sample taken after tank removal. EMC 42.

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/786 Add to Depot Warehouse	Butyl benzyl phthalate Bis(2-ethylhexyl)phthalate TPH Arsenic Antimony Berium Beryllium Cadmium Cobalt Chromium Copper Mercury Molybdenum Nickel Lead Silver Selenium Thallium Vanadium Zinc	0.11-1.2 0.32-0.89 0.51-1.2 3.7-15.9 1.5-4.9 23.2-139 0.2-0.5 0.5-13.7 2.2-6.9 5.8-68.2 9.0-74.1 0.7-2.7 0.5-1.0 3.8-18.7 4.5-75.6 0.3-4.2 1.4-2.2 3.2-12.6 11.4-29.5 15.4-80.3	20	1-15		Samples taken north of Building 786, EMC 41. PRJY 901002.

Table 10

List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
UST B/1075 B/870	Benzene Ethylbenzene Toluene Total xylenes Anthracene Benzo[a]anthracene Bis(2-ethylhexyl)phthalate Benzo[b]fluoranthene Benzo[a]pyrene Benzo[g,h,i]perylene Chrysene Dibenzo[a,h]anthracene Fluoranthene 2-methylnaphthalene Naphthalene Phenanthrene Pyrene Barium Beryllium Cadmium Cobalt Chromium Copper Molybdenum Nickel Lead Thallium Vanadium Zinc	0.04 0.06-1.2 0.06-1.5 0.28-9.2 0.63 1.7 0.12 3.1 2.4 0.83 1.5 0.18 1.1-3.1 0.78 0.84 0.68 0.48-3.8 34.1-239 0.21-0.52 0.01-0.06 5.3-8.6 11.3-14.2 8.8-16.5 0.23-0.37 16.5-22.5 5.3-14.4 32.3-47.8 17.7-34.4 17.5-31.9	4	6	--	Samples were taken from B/870 and B/1075 after UST removal. EMC 32.

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/362 Basinwide Oil Switch Removal	Bis(2-ethylhexyl)phthalate	0.45-1.9	4	1-15	--	Samples taken from southwest of B/362. EMC 36. PRJY 880125.
	Arsenic	3.3-6.4				
	Antimony	0.67-1.8				
	Barium	82-770				
	Beryllium	0.26-0.41				
	Cadmium	0.3-1.1				
	Cobalt	6-12				
	Chromium	9.5-12.9				
	Copper	19.6-74.5				
	Mercury	0.11-5.7				
	Molybdenum	0.48-0.98				
	Nickel	8.8-18.3				
	Lead	7.5-12.6				
	Selenium	5.3-12.6				
	Silver	0.38-1.2				
	Thallium	11.4-33.9				
	Vanadium	25.4-38.7				
Zinc	28.2-47.4					
East of Building 610	Bis(2-ethylhexyl)phthalate	0.46	1	surface	--	EMC 35.
	Arsenic	10.1				
	Barium	62				
	Beryllium	0.3				
	Cadmium	3.5				
	Cobalt	5.5				
	Chromium	15.7				
	Copper	14				
	Mercury	1.6				
	Molybdenum	0.7				
	Nickel	10.1				
	Lead	29.5				
	Thallium	8.8				
	Vanadium	22.4				
	Zinc	30.3				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Peacekeeper Mall Project North of Building 250 HH	Arsenic	13.9	1	2.5	--	EMC 37.
	Antimony	1.7				
	Barium	112				
	Beryllium	0.4				
	Cadmium	0.8				
	Cobalt	6.9				
	Chromium	13.8				
	Copper	11.9				
	Mercury	2.4				
	Molybdenum	0.7				
	Nickel	12.3				
	Lead	7.5				
	Thallium	9.5				
	Vanadium	35.9				
Zinc	20					
Child Care Center, West of Building 1412 (PRJY)	Bis(2-ethylhexyl)phthalate	0.20-0.42	6	1-15	--	EMC 32. PRJY 881004.
	Pyrene	0.56				
	Arsenic	9-26				
	Antimony	1.6-10.4				
	Barium	80.5-142.6				
	Beryllium	0.3-0.8				
	Cadmium	0.4-3.8				
	Cobalt	5.6-9.6				
	Chromium	12.2-24				
	Copper	19.5-30.4				
	Mercury	2.2-6.1				
	Molybdenum	0.8-2.9				
	Nickel	11.2-23.9				
	Lead	6.8-22.4				
Selenium	2.7					
Thallium	13.6-40.3					
Vanadium	31.5-61.5					
Zinc	24-39.7					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Buildings 473; 743; 440; 437; 419; 405; 351; 655; and 786	Butyl benzyl phthalate Bis(2-ethylhexyl)phthalate Arsenic Antimony Barium Beryllium Cadmium Cobalt Chromium Copper Mercury Molybdenum Nickel Lead Silver Selenium Thallium Vanadium Zinc	0.19-1.3 0.34-1.1 1.1-6.7 0.11-2.3 40.2-165.1 0.17-0.90 0.07-6.6 2.7-10 6.3-22.5 10.5-70.7 0.39-1.97 0.12-2.81 5.2-24.8 3.1-140 0.09-4.1 0.5-10.1 16.0-56.3 14.8-64.6 10.8-210.2	27		--	Sample locations and projects: South of B/473, conduit trench; south of B/443, cooling tower; north B/440, cooling tower; north of B/437, repair IWCS; northwest of B/419, repair IWCS; northwest of B/405, repair IWCS; east of B/351, repair IWCS; west of B/655, trench for A/C; and southwest of B/786, electrical service. EMC 30.

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Construct Wash Rack B/257	Benzene	0.30	1		--	Sample taken east of B/251 and B/252. EMC 28.
	Carbon tetrachloride	0.26				
	Ethyl benzene	0.97				
	Total xylenes	0.79				
	Bis(2-ethylhexyl)phthalate	0.25				
	TPH	285				
	Arsenic	3.4				
	Barium	121				
	Beryllium	0.42				
	Cadmium	4.3				
	Cobalt	6.7				
	Chromium	20.3				
	Copper	20				
	Mercury	1.1				
Molybdenum	1.3					
Alter Electric Distribution B/720	Nickel	16.6	6		--	Samples taken west of B/720. EMC 29.
	Lead	53.9				
	Thallium	9.8				
	Vanadium	31.1				
	Zinc	98.9				
	Benzene	0.18-0.27				
	Ethyl benzene	7.4-9.8				
	Toluene	2.5-2.9				
	Total xylenes	3.5-4.2				
	Buryl benzyl phthalate	0.39				
Isophorone	0.38					
2-Methylnaphthalene	0.96					
Naphthalene	0.65					
TPH	13-1,670					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
Alter Electric Distribution B/720 (continued)	Arsenic	5.4-8.0	1	5	--	Samples taken from trench south of B/252. EMC 27.	
	Antimony	2.0-2.8					
	Barium	52.5-65.8					
	Beryllium	0.2-0.3					
	Cobalt	4.7-6.3					
	Chromium	10.2-15.9					
	Copper	7.4-9.2					
	Mercury	1.2-1.6					
	Molybdenum	0.6-0.8					
	Nickel	5.8-11.7					
	Lead	6.9-7.6					
	Thallium	3.9-7.7					
	Vanadium	24.4-27.5					
	Zinc	9.4-14.7					
	Connect Cooling Towers B/252	1,1-Dichloroethylene					0.55
		1,4-Dichlorobenzene					5
Ethyl benzene		0.19					
Toluene		0.28					
Tetrachloroethylene		1.2					
1,1,1-Trichloroethane		4.9					
Trichloroethylene		0.03					
Total xylenes		1.8					
Bis(2-ethylhexyl)phthalate		2.5					
2-Methylnaphthalene		0.39					
Naphthalene		0.29					
Barium		75					
Beryllium		0.29					
Cadmium		1.3					
Cobalt		4.4					
Chromium		13.1					
Copper	38.8						
Molybdenum	0.59						
Nickel	12						
Lead	19.2						
Selenium	1.8						
Thallium	23						
Vanadium	27.8						
Zinc	263						

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Excavated Soil from Building 943	Benzene	0.01	12		--	Samples taken from project area.
	Ethylbenzene	0.01-0.02				
	Toluene	0.01-0.09				
	Total xylenes	0.01-0.07				
	Bis(2-ethylhexyl)phthalate	0.89-2.7				
	Butyl benzyl phthalate	0.01-0.02				
	Benzo[a]anthracene	0.02				
	Benzo[g,h,i]perylene	0.02				
	Chrysene	0.01				
	Di-n-butyl phthalate	0.02-0.04				
	Di-n-octyl phthalate	0.03				
	Phenanthrene	0.01-0.03				
	Pyrene	0.02-0.09				
	Arsenic	0.9-6.6				
	Barium	54.1-122.7				
	Beryllium	0.29-0.42				
	Cobalt	3-6.3				
	Chromium	7.2-12.1				
	Copper	5.4-11.4				
	Mercury	3.2-5				
Molybdenum	0.16-0.55					
Nickel	3.1-12.8					
Lead	6-12.6					
Selenium	5.4-8.6					
Thallium	13-21.1					
Vanadium	21.4-29					
Zinc	10.7-25.7					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
UST B/614	TPH	680	1		--	Sample taken from UST adjacent to B/614. EMC 8.
	Arsenic	0.3				
	Barium	32				
	Beryllium	0.42				
	Cadmium	0.32				
	Cobalt	4.6				
	Chromium	18.9				
	Copper	14.9				
	Molybdenum	0.44				
	Nickel	21.5				
	Lead	21.8				
	Selenium	0.5				
	Silver	0.30				
	Vanadium	19.6				
Zinc	72.3					
Jet Fuel Storage Facility B/318	Benzene	0.03	41		--	Samples were taken at the proposed facility. EMC 5.
	Total xylenes	0.21				
	Bis(2-ethylhexyl)phthalate	0.60-2.6				
	Butyl benzyl phthalate	0.18-0.51				
	Di-n-butyl phthalate	0.11				
	Arsenic	0.1-4.6				
	Antimony	0.07-1.16				
	Barium	36.6-300				
	Beryllium	0.25-0.59				
	Cadmium	0.03-1.3				
	Cobalt	1.9-22.6				
	Chromium	7.2-47				
	Copper	9.3-60.2				
	Molybdenum	0.2-7.1				
Nickel	5-17.4					
Lead	4-38.1					
Selenium	0.3-3.5					
Thallium	28-88.2					
Vanadium	17.5-41.2					
Zinc	14.9-74					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Repair Steam Line B/645	Bis(2-hexylethyl)phthalate	0.01-0.04	4		--	Sample taken along proposed trench line to the east of B/655 to B/645. EMC 24.
	TPH	120-1,110				
	Arsenic	8.3-11.3				
	Antimony	1.5-2.1				
	Barium	25.2-105				
	Beryllium	0.3-0.4				
	Cadmium	0.5-0.8				
	Cobalt	4.3-7.0				
	Chromium	12.5-21.5				
	Copper	13.7-28.1				
	Mercury	2-3				
	Molybdenum	0.6-1.3				
	Nickel	11.5-17.9				
	Lead	4.5-10.2				
	Thallium	8-11.5				
	Vanadium	15.7-32.8				
	Zinc	16.3-46				
Conforming Storage Facility	Benzene	0.01	16	5-15	--	EMC 6.
	Chlorofluoromethane	0.02-0.12				
	1,1-Dichloroethylene	0.01				
	Toluene	0.01-0.04				
	Total xylenes	0.01-0.05				
	Bis(2-ethylhexyl)phthalate	1.2-2.2				
	Chrysene	0.02-0.04				
	Di-n-butyl phthalate	0.02-0.04				
	Diethyl phthalate	0.04-0.05				
	Fluoranthene	0.06				
	Phenanthrene	0.06				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Conforming Storage Facility (continued)	Antimony	0.2-1.5				
	Barium	1.8-17.4				
	Beryllium	0.16-0.34				
	Cadmium	0.02-0.60				
	Cobalt	4.2-11.5				
	Chromium	5.3-14.6				
	Copper	10.5-168.9				
	Mercury	1.2-4				
	Molybdenum	0.03-0.52				
	Nickel	3.6-17.2				
	Lead	6.7-28.4				
	Thallium	6.8-14.5				
	Vanadium	6.4-16.6				
	Zinc	11.7-72.8				
Sound Suppressor Support North of B/774	Ethyl benzene	0.01	17	1-15		Samples taken north of B/774. EMC 15.
	Toluene	0.01-0.03				
	Total xylenes	0.01-0.04				
	Bis(2-ethylhexyl)phthalate	0.74-29				
	Butyl benzyl phthalate	0.48				
	Arsenic	5.7-17.2				
	Antimony	0.54-1.2				
	Barium	43.3-179				
	Beryllium	0.20-0.40				
	Cadmium	0.08-1				
	Cobalt	3.2-8.2				
	Chromium	7.1-14.9				
	Copper	12.8-57.1				
	Mercury	3.6-10				
	Molybdenum	0.51-1				
	Nickel	7-35.7				
	Lead	5.9-56.5				
Selenium	3.9-9.8					
Thallium	33.3-90.9					
Vanadium	14.1-23					
Zinc	19.4-60.2					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Interim Hydraulic Facility West of B/241	Bis(2-ethylhexyl)phthalate	0.20-10.9	16	1-15	--	Samples were taken from west of B/241. EMC 13.
	Ethylbenzene	0.01				
	Toluene	0.01-0.02				
	Total xylenes	0.01-0.03				
	Arsenic	9.8-33.0				
	Antimony	0.5-1.9				
	Barium	45.8-465				
	Beryllium	0.12-0.50				
	Cadmium	0.13-0.71				
	Cobalt	4.2-8				
	Chromium	5.6-15.8				
	Copper	18.4-113				
	Mercury	4.4-10.5				
	Molybdenum	0.8-1.7				
	Nickel	6.9-20.3				
	Lead	3.5-22				
	Selenium	6.9-16.8				
	Silver	0.22-0.77				
	Thallium	24.2-73.9				
	Vanadium	9.7-26.5				
Zinc	17.6-63.2					
Remodel MA's Washrack B/375	Chloroform	0.01				
	1,1-Dichloroethylene	0.01				
	Ethyl benzene	0.01				
	Toluene	0.06-0.19				
	Total xylene	0.02-0.05				
	Tetrachloroethylene	0.02-0.10				
	1,1,1-Trichloroethane	0.01				
	Trichloroethylene	0.01-0.02				
	Trichlorofluoromethane	0.01-0.76				
	Acenaphthene	0.01-0.02				
	Antracene	0.02-0.30				
	Butyl benzyl phthalate	0.02-0.53				
Benzo(a)anthracene	0.02-0.39					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Remodel MA's Washrack B/375 (continued)	Bis(2-ethylhexyl)phthalate	0.14-2.4				
	Benzo[k]fluoranthene	0.03-0.40				
	Benzo[b]fluoranthene	0.04-0.43				
	Benzo[a]pyrene	0.02-0.40				
	Benzo[g,h,i]perylene	0.12-0.27				
	Chrysene	0.04-0.58				
	Dibenzo[a,h]anthracene	0.14				
	Di-n-butylphthalate	0.02-0.24				
	Di-n-octylphthalate	0.19-0.25				
	Fluoranthene	0.01-0.50				
	Indeno[1,2,3-cd]pyrene	0.12-0.15				
	2-Methylnaphthalene	0.22				
	N-nitroso-di-n-propylamine	1.6				
	Nitrobenzene	4.9				
	Naphthalene	3.9				
	Phenanthrene	0.01-0.56				
	Pyrene	0.03-1.2				
	Pentachlorophenol	0.42-0.44				
	Arsenic	0.6-7.7				
	Antimony	0.09-2				
	Barium	29.3-138				
	Beryllium	0.21-0.54				
	Cadmium	0.02-0.59				
Cobalt	4.8-9.1					
Chromium	7.9-32.8					
Copper	28.1-159					
Mercury	0.23-2.5					
Nickel	7.9-20.3					
Lead	4.0-19.4					
Silver	0.17-0.66					
Selenium	2.3-3.9					
Thallium	4.5-18.6					
Vanadium	4.5-33					
Zinc	30.6-75.3					
UST B/1104	Oil and grease	356-950	2		--	Samples taken after UST was removed at B/1104. EMC 50.
	TPH	92-721				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
UST B/395	Trichloroethylene	0.01	1	8	--	Sample taken after UST was removed west of B/395. EMC 48.
	Tetrachloroethylene	0.01				
	Arsenic	15.4				
	Antimony	3.8				
	Barium	87.3				
	Cobalt	8				
	Chromium	15.1				
	Copper	32.9				
	Mercury	1.7				
	Molybdenum	1.4				
	Nickel	16.9				
	Lead	12.6				
	Thallium	53.8				
	Vanadium	39.3				
Zinc	33.4					
Depot Hydraulic Facility North of B/241	Bis(2-ethylhexyl)phthalate	0.12-1.7	18	1-15	--	Samples taken north of B/241. PRJY 901023. EMC 10.
	Arsenic	0.12-5.4				
	Barium	60.4-301				
	Beryllium	0.04-0.53				
	Cadmium	0.02-0.54				
	Cobalt	2.5-13				
	Chromium	3-11.2				
	Copper	19.9-88.4				
	Mercury	1.6-4.6				
	Molybdenum	0.22-1.2				
	Nickel	7.3-29.8				
	Lead	2.4-14.7				
	Selenium	0.6-23.5				
	Silver	0.18-0.51				
	Thallium	9.1-48.1				
	Vanadium	7.4-40.8				
	Zinc	17.5-64.4				
UST North of B/641	TPH	105	3			One sample taken from excavated soil and two samples taken from soil after UST removed north of B/641. EMC 51.

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
UST B/351 AB	Tetrachloroethylene	0.02	2	10	--	Samples taken after contaminated soil removed. EMC 52.
	1,1,1-Trichloroethane	0.03-0.04				
	1,1,2-Trichloroethane	0.01				
	Trichloroethylene	0.02				
	TPH	0.14				
	Barium	79.1-95.1				
	Cobalt	4.9-5.5				
	Chromium	14.5-14.9				
	Copper	11.0-14.4				
	Nickel	10.5-16.1				
	Lead	2.8-6.1				
	Thallium	25.7-28.1				
	Vanadium	29.9-36.6				
	Zinc	19.5-22.3				
UST B/91 1000 Area IW Line/New IWTP Site/Pit 8	Toluene	0.04	2			EMC 53.
	Benzene	0.25	9			EMC 54.
	Chloroform	0.02				
	Ethylbenzene	0.01-1.3				
	Toluene	0.02-0.14				
	1,1,2,2-Tetrachloroethane	0.03				
	1,1,1,2-Tetrachloroethane	0.03				
	Trichlorofluoromethane	0.02-0.22				
	Total xylenes	0.03-3.5				
	Vinyl chloride	0.02				
	Bis(2-ethylhexyl)phthalate	0.70-1.7				
	Butyl benzyl phthalate	0.14				
	1,2-Dichlorobenzene	0.04				
	1,4-Dichlorobenzene	0.03				
	1,3-Dichlorobenzene	0.03				
	Di-n-butyl phthalate	0.39				
	Fluoranthene	0.47				
2-Methylnaphthalene	0.27					
Naphthalene	0.06-0.26					
Phenanthrene	0.06					
Pyrene	0.06					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
1000 Area 1W Line/New IWTP Site/Pit 8 (continued)	Antimony	0.4-1	9	1-15	--	
	Barium	60.2-123.3				
	Beryllium	0.18-0.28				
	Cadmium	0.13-0.87				
	Cobalt	2.8-5				
	Chromium	3.3-12.2				
	Copper	4.5-13.5				
	Mercury	2.9-4.7				
	Molybdenum	0.04-0.5				
	Nickel	0.07-9.4				
	Lead	7.6-32.9				
	Selenium	0.9-2.2				
	Thallium	11-22.1				
	Vanadium	13-22.7				
	Zinc	16.3-44.4				
Fire Sprinkler System B/362	Bis(2-ethylhexyl)phthalate	0.13-0.62	9	1-15	--	One sample taken near pump house between B/362 and B/365; two samples taken east of B/362.
	3,3-Dichlorobenzidine	0.11				
	Arsenic	11.2-40.9				
	Barium	16.8-147				
	Beryllium	0.2-0.6				
	Cobalt	3-16.4				
	Chromium	5.5-14				
	Copper	7-27.4				
	Mercury	1.6-3.6				
	Molybdenum	0.8-1.7				
	Nickel	6.1-17.7				
	Lead	2.6-14.4				
	Selenium	4.5-16.2				
	Thallium	8.9-26.1				
	Vanadium	15.8-54.3				
Zinc	11-39.2					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
UST West of B/334	Arsenic	33.0-33.4	2		--	Samples taken to determine UST contamination. EMC 39.
	Barium	122-133				
	Beryllium	0.5-0.6				
	Cobalt	4.3-4.6				
	Chromium	12.3-19				
	Copper	15.3-16.7				
	Mercury	2.4-2.5				
	Molybdenum	0.9				
	Nickel	13.7-15				
	Lead	4-4.7				
	Selenium	11-11.5				
	Silver	0.3				
	Thallium	21.4-22.4				
	Vanadium	40.1-42.5				
	Zinc	24.8-30.6				
Vehicle Maintenance Facility B/431	Acenaphthenc	0.32	26	1-15	--	Samples taken northeast of B/431. EMC 4.
	Bis(2-ethylhexyl)phthalate	0.14-0.61				
	Butyl benzyl phthalate	0.14-1				
	Di-n-butyl phthalate	0.22-0.36				
	Diethyl phthalate	0.13-0.26				
	Arsenic	1.1-2.9				
	Antimony	0.19-0.56				
	Barium	44.3-152				
	Beryllium	0.30-0.56				
	Cadmium	0.05-1				
	Cobalt	3.5-9.9				
	Chromium	8.4-78				
	Copper	11.1-133				
	Molybdenum	0.13-1.2				
	Nickel	6.7-48.4				
Lead	5.6-61.9					
Selenium	0.1-1.2					
Thallium	23.6-52.4					
Vanadium	23.3-46.1					
Zinc	18.1-190					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Utility Lines B/610	Bis(2-ethylhexyl)phthalate Butyl benzyl phthalate Arsenic Antimony Barium Beryllium Cadmium Cobalt Chromium Copper Mercury Molybdenum Nickel Lead Selenium Silver Thallium Vanadium Zinc	0.77-1.2 0.35-101 2.2-6.5 1.7-2.8 43.2-632 0.22-0.43 0.23-0.96 2.6-7.7 11.2-40 17.7-53 0.29-4 0.49-3.4 14-25.7 7.3-10.4 5.3-10.3 0.47-1.1 21.5-44.1 23.7-30.6 29.7-69.8	6	1-12	--	Samples were taken from proposed trenchline. EMC 3.
UST Lincoln Receiver Site	Ethylbenzene Toluene Total xylenes TPH	0.03 0.02 0.04 0.13-1.1	6		--	Samples taken from around UST. EMC 9.
Warehouse N of B/783	Benzene Chloroform 1,1-Dichloroethane 1,2-Dichloropropane Ethyl benzene Toluene Total xylenes 1,1,2,2-Tetrachloroethane 1,1,1-Trichloroethane Trichlorofluoromethane Bis(2-ethylhexyl)phthalate Butyl benzyl phthalate	0.01-0.03 0.01 0.01 0.02 0.01-0.02 0.01-0.04 0.01-0.03 0.02 0.01 0.01-0.09 0.47-1.7 0.11-2.8	60	1-10	--	EMC 7.

Table 10

List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Warehouse N of B/783 (continued)	Arsenic	1.2-16.1	6	1-15	--	EMC 25. West of B/243F.
	Antimony	0.07-1.1				
	Barium	21.1-126				
	Beryllium	0.1-0.55				
	Cadmium	0.06-3.3				
	Cobalt	0.9-10.9				
	Chromium	4.5-25.2				
	Copper	11.1-199				
	Mercury	1.1-8.6				
	Molybdenum	0.22-1.2				
	Nickel	2.2-25.5				
	Lead	3-14.4				
	Selenium	1-8.8				
	Silver	0.05-0.86				
	Thallium	12.8-102				
	Vanadium	6.8-44.3				
	Zinc	10.6-177				
JBI Paint Booth	Ethyl benzene	0.01	6	1-15	--	EMC 25. West of B/243F.
	Toluene	0.01				
	Total xylenes	0.02				
	Bis(2-ethylhexyl)phthalate	0.24				
	Arsenic	6.2-17.1				
	Antimony	1.9-23				
	Barium	42.3-127				
	Beryllium	0.2-0.5				
	Cadmium	0.6-1.3				
	Cobalt	3.8-8.4				
	Chromium	9.1-26.4				
	Copper	24-162				
	Mercury	1-4.1				
	Molybdenum	0.8-1.5				
	Nickel	5.8-32.5				
	Lead	6.0-10.4				
	Thallium	3.9-18.7				
Vanadium	22-38.9					
Zinc	19-57.1					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
UST B/458, B/655E, B/658	Arsenic Antimony Barium Beryllium Cadmium Cobalt Chromium Copper Mercury Molybdenum Nickel Lead Silver Thallium Vanadium Zinc	6.6-9.4 3.8-4.3 46.1-114 0.3-0.5 0.6-0.7 7.1-8 9.6-16.8 14.2-77.2 1.8-2.1 1.2-1.5 12.5-17.1 11-17.8 1.1-1.3 11.5-15.7 26.7-39.5 26.6-84.7	5		--	Samples taken after contaminated soil removed. EMC 34.

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Commissary Expansion B/910	Total xylenes	3.1-48				
	Di-n-butyl phthalate	0.1				
	Bis(2-ethylhexyl)phth Naphthalene	1.2-1.5 0.02-0.04				
	TPH	202-20435				
	Antimony	3.1-3.3				
	Arsenic	11-24				
	Barium	37-128				
	Cadmium	0.1				
	Chromium	13-23				
	Cobalt	4.0-10				
	Copper	7.7-26				
	Mercury	1.6-2.2				
	Molybdenum	2.2-2.9				
	Nickel	8-17				
	Lead	4.8-13				
Selenium	4.8-5.7					
Silver	0.5-1.3					
Thallium	1.1-79					
Vanadium	20.78					
Zinc	47-62					
Davis-Drums and Bins	Ethyl benzene	0.2				
	Xylenes	6.7				
	TPH	258-9120				
	Barium	0.1-0.2				
	Chromium	0.03				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
TF6-TF7	TPH Antimony Arsenic Barium Cadmium Chromium Cobalt Copper Molybdenum Nickel Lead Thallium Vanadium Zinc	79-867 1.0 10.2 65.2 3.2 12.9 19.3 3.2 1.1 9.0 6.1 14.5 16.7 15.4				
B/486	Antimony Arsenic Barium Chromium Cobalt Copper Molybdenum Nickel Lead Selenium Silver Thallium Vanadium Zinc	3.1 2.8 20.7 3.9 1.8 6.6 2.1 1.2 6.1 3.7 0.5 3.8 6.7 25.7				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Haggin Sub-station	Arochlor 1254	1.0-8.0				
	Dieldrin	0.02-0.6				
	TPH	136				
	Antimony	2.1-3.6				
	Arsenic	10.32				
	Barium	72-137				
	Beryllium	0.2-0.5				
	Chromium	15-24				
	Cobalt	4.5-8.6				
	Copper	14-30				
	Molybdenum	1.5-1.8				
	Mercury	2.9-6.5				
	Nickel	15-37				
	Lead	9-11				
	Selenium	3.4-4.6				
	Silver	0.3-0.5				
Thallium	31-47					
Vanadium	34-51					
Zinc	28-38					
B/911 Shopping Center Expansion	TPH	65				
	Antimony	7.6-8.1				
	Arsenic	11.3-16.4				
	Barium	0.6				
	Beryllium	7.6-9.9				
	Chromium	8-9.4				
	Cobalt	18-20				
	Copper	1.0-2.4				
	Molybdenum	1.1-2.2				
	Mercury	12-27				
	Nickel	13-27				
	Lead	3.4-4.6				
	Selenium	1.1-4.5				
	Silver	47-51				
	Thallium	48-55				
	Vanadium	37-70				
Zinc						

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Midland Staging Area	Heptachlor epoxide	0.03				
	Antimony	3.1-6.6				
	Arsenic	6.8-11				
	Barium	48-612				
	Beryllium	0.5				
	Chromium	18-30				
	Cobalt	3.9-6.8				
	Copper	13-36				
	Molybdenum	1.1-1.8				
	Mercury	2.4-7.4				
	Nickel	6-16				
	Lead	4.2-66				
	Selenium	4.8-7.4				
	Silver	0.5-1.3				
Thallium	3-16					
Vanadium	22-36					
Zinc	21-82					
UST B/253 East & West	TPH	40-94				
UST 701-1-DF	TPH	63				
B/450E-1 Electrical Upgrade	Di-n-butyl-phthalate	0.05-0.17				
	Barium Cobalt	0.23-0.6 0.07				
UST B/329	Ethyl benzene Xylenes	0.09-0.5 0.5-1.8				
	Barium Zinc	0.83 0.12				
B/692 Install Staircase	Xylenes	0.02				
UST B/252	TPH	405				
B/687 DRMO Storage Fac.	Barium	0.19-0.8				
	Copper	0.089-0.21				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Lincoln Site Pond rim NE	Ethyl Benzene	0.03				
	Xylenes	0.04				
	TPH	390-1070				
	Antimony	3.6-4.2				
	Arsenic	11				
	Barium	41-47				
	Beryllium	0.5-0.6				
	Chromium	21-24				
	Cobalt	4.6-15				
	Copper	15-26				
	Molybdenum	1-1.1				
	Mercury	3.9-4.9				
	Nickel	11-14				
	Lead	11-46				
	Selenium	4.4-4.8				
B/628	Silver	0.8				
	Thallium	1.3-3.3				
	Vanadium	31-38				
	Zinc	29-38				
	Antimony	2.1-3.3				
	Arsenic	1.9-2.7				
	Barium	108-240				
	Beryllium	0.5-0.6				
	Chromium	16-19				
	Cobalt	4.6-7.2				
	Copper	5-15				
	Molybdenum	1				
	Mercury	3.9-4.9				
	Nickel	12-14				
	Lead	3.3-6				
Selenium	4.0-5.2					
Silver	0.5-0.8					
Thallium	33-46					
Vanadium	35-46					
Zinc	24-55					
B/1080 South TOD Warehouse	Barium	0.3-0.7				
	Zinc	0.5-0.6				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
UST B/1028 A&B	TPH	0.2-19				
	Trichloroethylene	0.2				
B/704	Antimony	11				
	Arsenic	2.5				
	Barium	178				
	Beryllium	0.6				
	Chromium	13-32				
	Cobalt	5.2				
	Copper	111				
	Molybdenum	1.4				
	Mercury	2.2				
	Nickel	23				
	Lead	342				
	Silver	2.6				
	Thallium	25				
	Vanadium	26				
Zinc	403					
UST B/766	TPH	7100-7250				
UST B/251	TPH	105				
UST B/783 P	Antimony	8.8				
	Arsenic	2.9				
	Barium	38				
	Beryllium	0.6				
	Chromium	13				
	Cobalt	2.6				
	Copper	9				
	Molybdenum	3.1				
	Mercury	1.7				
	Nickel	6.8				
	Lead	13.4				
	Selenium	1.9				
	Silver	0.5				
	Thallium	20.3				
Vanadium	12					
Zinc	19					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
UST B/339 East & West	Antimony	3.8-4.2				
	Arsenic	13-14				
	Barium	109-154				
	Beryllium	0.4-0.6				
	Chromium	12-17				
	Cobalt	6.4-8				
	Copper	13-17				
	Molybdenum	1.2-1.3				
	Mercury	3.1-3.3				
	Nickel	16-19				
	Lead	4.2-11				
	Silver	0.7-0.8				
	Thallium	22-25				
	Vanadium	32-94				
Zinc	24-28					
B/720	Ethyl Benzene	7.4-10				
	Toluene	2.5-2.8				
	Xylenes	3.3-4.2				
	TPH	1180-1570				
B/1412	Antimony	3.1-6.6				
	Arsenic	6.8-11				
	Barium	48-130				
	Beryllium	0.5				
	Cadmium	0.4-1.5				
	Chromium	18-22				
	Cobalt	3.9-6.8				
	Copper	13-36				
	Molybdenum	1.1-1.8				
	Mercury	2.4-7.4				
	Nickel	6-16				
	Lead	4.2-66				
	Selenium	4.8-7.4				
	Silver	0.5-1.3				
Thallium	3-16					
Vanadium	22-36					
Zinc	24-39					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/525	Ethyl Benzene Toluene Xylenes	1.8 0.5 4.8				
B/4000	TPH Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Molybdenum Mercury Nickel Lead Selenium Silver Thallium Vanadium Zinc	6710 1.5-2.3 18-22 96-135 0.4-2.3 0.5-1.6 11-20 7.1-10 19-29 13-24 0.7-2.2 6-17 3.1-6.8 1.9-3 0.5 56-61 33-41 58-59				
B/4004 N	Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Molybdenum Mercury Nickel Lead Selenium Silver Thallium Vanadium Zinc	8.8 24 58 0.6 0.3 10 2.6 9 3.1 1.7 6.8 13.4 1.9 0.5 20.3 12 19				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/4004 N (continued)	Bis(2-ethylhexyl)phthalate	0.4				
	Di-n-butyl phthalate	0.2				
	Antimony	0.2-0.6				
	Arsenic	1.2-1.4				
	Barium	44-117				
	Beryllium	0.3-0.4				
	Cadmium	0.1-0.9				
	Chromium	10-22				
	Cobalt	3.5-10				
	Copper	12-91				
	Molybdenum	0.4-1.8				
	Mercury	0.7-1.2				
	Nickel	9-25				
	Lead	6.3-32				
	Selenium	1.9-4.2				
	Silver	0.3-0.6				
	Thallium	21-51				
Vanadium	29-33					
Zinc	22-117					
UST B/395	Antimony	3.8				
	Arsenic	21				
	Barium	58				
	Beryllium	0.6				
	Cadmium	0.3				
	Chromium	10				
	Cobalt	2.6				
	Copper	9				
	Molybdenum	3.1				
	Mercury	1.7				
	Nickel	6.8				
	Lead	13.4				
	Selenium	1.9				
	Silver	0.5				
	Thallium	53				
	Vanadium	29				
	Zinc	33				

Table 10

List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/362	Arsenic Barium Beryllium Chromium Cobalt Copper Molybdenum Mercury Nickel Lead Selenium Silver Thallium Vanadium Zinc	6.8-11 48-130 0.5 18-22 3.9-6.8 13-36 1.1-1.8 2.4-7.4 6-16 4.2-66 4.8-7.4 0.5-1.3 3-16 22-36 24-39				
B1	TPH Arsenic Barium Beryllium Chromium Cobalt Copper Nickel Lead Silver Thallium Vanadium Zinc	65-210 8.4-36.9 50-147 0.3-0.4 13-14 4-5.1 10-35 6.1-17 2.6-3.6 0.2-0.3 21-37 22-28 11-20				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/1437 Hospital	Arsenic Barium Beryllium Chromium Cobalt Copper Nickel Lead Silver Thallium Vanadium Zinc	4.8-21 101-424 0.2-0.4 7.9-23 4.0-6.2 21-36 5.8-42 8.1-19 6.1-0.3 38-84 19-48 23-46				
B/652	TPH Arsenic Barium Beryllium Chromium Cobalt Copper Nickel Lead Silver Thallium Vanadium Zinc	35-92 5.9-12.9 59-173 0.4 15-17 5.6-7 10-14 7.6-17 2.5-4 0.3 32-40 30-40 14-33				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
DET 42	Acenaptene	18					
	Anthene	19					
	Benzo[a]anthracene	18					
	Benzo[k]fluoranthene	117					
	Benzo[b]fluoranthene	55					
	Benzo[a]fluoranthene	112					
	Benzo[g,h,i]perylene	42					
	Chrysene	80					
	Dibenzofuran	2.5					
	Fluoranthene	88					
	Fluorene	4.4					
	Indeno[1,2,3-cd]pyrene	49					
	2-Methylnaphthalene	1.6					
	Napthalene	2.7					
	Phenanthene	54					
	Pyrene	106					
	Arsenic	8.4-12					
	Barium	56-100					
	Beryllium	0.4					
	Chromium	10-13.5					
	Cobalt	12-26					
	Copper	13-35					
	Nickel	9-20					
Lead	3.9-7.0						
Silver	0.6-0.7						
Thallium	24-55						
Vanadium	23-46						
Zinc	18-32						

Table 10

List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/440 E	Ethyl benzene	0.6				
	Xylenes	1.0				
	TPH	300-1050				
	Antimony	8.8				
	Arsenic	24				
	Barium	158				
	Beryllium	0.6				
	Chromium	10				
	Cobalt	2.6				
	Copper	9				
	Molybdenum	3.1				
	Mercury	1.7				
	Nickel	6.8				
	Lead	13.4				
	Selenium	1.9				
	Silver	0.5				
	Vanadium	12				
Zinc	19					
B/475 Small	Antimony	5-5.2				
	Arsenic	12-14				
	Barium	91-132				
	Beryllium	0.3-0.4				
	Chromium	81-117				
	Cobalt	9.2-11				
	Copper	17.5				
	Molybdenum	1-1.1				
	Mercury	1.3				
	Nickel	26-31				
	Lead	9.6-37				
	Selenium	1.7-3.4				
	Silver	0.9-1.4				
	Thallium	22-33				
	Vanadium	23-32				
	Zinc	155-203				

Table 10 List of Contaminants by Building or Location							Sheet 38 of 56
Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
UE/Aero Club	Ethyl Benzene Toluene Xylenes	90-116 208-49000 154-1850					
UST B/344 N	TPH Arsenic Barium Beryllium Chromium Cobalt Copper Molybdenum Mercury Nickel Lead Selenium Silver Thallium Vanadium Zinc	1260-874000 33 122-133 0.5-0.6 4.3-4.6 12-19 15-16 0.9-1.1 2.5-2.6 14-15 4.0-4.7 11-12 0.3 21-22 40-42 24-31					
B/326 Drying Beds	TPH	30					
B/1093	TPH Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Nickel Lead Silver Thallium Vanadium Zinc	26-60 5.3 103-109 0.4 1.3-2.4 33-39 5.7-8 21-31 10-17 11-22 1.2 35-38 33-50 35-63					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/1071	Arsenic	8.1-13				
	Barium	36-130				
	Beryllium	0.5				
	Chromium	12-17				
	Cobalt	10-12				
	Copper	6.8-11				
	Nickel	16-31				
	Lead	8.3-15				
	Silver	0.5-0.6				
	Thallium	35-62				
	Vanadium	37-48				
	Zinc	33-41				
	B/1080 S	TPH	53			
Arsenic		9.3-12				
Barium		21-155				
Beryllium		0.5-0.8				
Chromium		8.9-31				
Cobalt		7-21				
Copper		5.6-51				
Mercury		1.0-1.6				
Nickel		12-21				
Lead		8.1-20				
Silver		0.6-0.7				
Thallium		25-81				
Vanadium		43-55				
Zinc	23-46					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
TF3	Ethyl benzene	0.06				
	Toluene	0.4				
	Xylenes	0.2				
	TPH	15-37				
	Arsenic	9-11				
	Barium	69-140				
	Beryllium	0.5-0.6				
	Chromium	17				
	Cobalt	6.2-8.6				
	Copper	32-56				
	Nickel	15-21				
	Lead	4.1-7.8				
	Thallium	72-93				
	Vanadium	43-48				
Zinc	35-46					
B/360	Antimony	4.3-7.5				
	Arsenic	8.8-27				
	Barium	136-469				
	Beryllium	0.6-0.7				
	Chromium	20-22				
	Cobalt	10-43				
	Copper	12-22				
	Mercury	2.5-4.6				
	Nickel	20-36				
	Lead	11-19				
	Silver	0.6-0.9				
	Thallium	95-114				
	Vanadium	43-44				
	Zinc	39-70				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
Soil Holding Area Nos. 1-9	Antimony	3.3-5.5					
	Arsenic	8.7-31					
	Barium	19-66					
	Beryllium	0.6-0.8					
	Chromium	25-32					
	Cobalt	12-45					
	Copper	13-43					
	Mercury	1.5-2.0					
	Nickel	23-45					
	Lead	13-33					
	Silver	0.6-0.8					
	Thallium	56-61					
	Vanadium	43-55					
	Zinc	32-81					
	Air Field Nos. 1, 2, 3	Arsenic	3.8-17				
		Barium	109-223				
Beryllium		0.3-0.6					
Chromium		9.5-21					
Cobalt		10-43					
Copper		12-22					
Mercury		2.5-4.6					
Nickel		20-36					
Lead		11-19					
Silver		0.6-0.9					
Thallium		95-114					
Vanadium		43-44					
Zinc		39-70					
UST B/1105 N&S	TPH	92-721					
UST B/475 (TF6)	Ethyl benzene	0.4-103					
	Toluene	0.01-11					
	Xylenes	0.016-28					
B/1075 N & W Pile and Pit	TPH	100-21000					
	Barium	0.3-0.4					
	Cobalt	0.02					
	Zinc	0.1-0.17					

Table 10

List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/1704	Barium Zinc	0.28 0.03				
B/243	Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Molybdenum Mercury Nickel Lead Selenium Silver Thallium Vanadium Zinc	1.4-14 3.1 25-1510 0.1 14-7800 108-1500 19-48 1.3-2 1.8-2.8 2.5-10.7 27-1020 7-2360 0.4-2 9.3-54 5-15 6-2460				
UST B/655	Ethyl benzene Toluene Xylene Antimony Arsenic Barium Beryllium Chromium Cobalt Molybdenum Mercury Nickel Lead Selenium Silver Thallium Vanadium Zinc	6.6 71 20 1.2-2.0 3.3 10-19600 0.1-0.5 8-24000 0.4-3.3 13-4.2 20.6 2.5-13 3-79 3.3-24 0.3-1.6 10-76 5-13 5-2030				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
B/692	Barium	28300					
	Chromium	28900					
	Cobalt	4.5					
	Molybdenum	4.4					
	Mercury	25					
	Nickel	19					
	Lead	97					
	Selenium	32					
	Silver	1.9					
	Thallium	87					
	Vanadium	15					
	Zinc	3.3					
	B/318 Jet Fuel Storage	Antimony	0.5-0.7				
		Arsenic	0.9-1.4				
Barium		64-247					
Beryllium		0.3-0.4					
Chromium		7.5-12					
Cobalt		0.5-4					
Molybdenum		0.4-0.8					
Mercury		0.7-4					
Nickel		18-21					
Lead		6-7.4					
Selenium		0.3-0.7					
Silver		0.3-0.8					
Thallium		31-68					
Vanadium		33-71					
Zinc	25-68						

Table 10

List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/640 E	Antimony	0.8-2.2				
	Arsenic	0.9-5.7				
	Barium	64-632				
	Beryllium	0.3-0.4				
	Cadmium	0.2-0.9				
	Chromium	7.5-14				
	Cobalt	0.6-18				
	Molybdenum	0.7-0.9				
	Mercury	0.3-2.2				
	Nickel	6-25				
	Lead	6-7.6				
	Selenium	0.8-2.6				
	Silver	0.7-1.0				
	Thallium	23-35				
	Vanadium	21-61				
	Zinc	33-47				
	B/7 CRC Power Plant	Ethyl benzene	19			
Toluene		66				
TPH		106-1000000				
B/614 Fuel Tank	Antimony	1.3-2.5				
	Arsenic	0.9-1.6				
	Barium	96-111				
	Beryllium	0.6-0.9				
	Chromium	22-44				
	Cobalt	14-23				
	Copper	12-22				
	Mercury	1.6-2.1				
	Nickel	20-36				
	Lead	11-19				
	Silver	0.6-0.9				
	Thallium	92-103				
	Vanadium	43-44				
	Zinc	39-70				
TPH	680					

Table 10

List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/257	TPH Arsenic Barium Beryllium Chromium Cobalt Copper Mercury Nickel Lead Silver Thallium Vanadium Zinc	285 4.3-12 21-163 0.5-0.9 8.9-33 3.4-12 5.6-55 1.0-1.7 21-33 8.1-24 0.7-0.8 33-67 55-79 23-56				
UST B/658	Antimony Arsenic Barium Beryllium Chromium Cobalt Copper Mercury Nickel Lead Silver Thallium Vanadium Zinc	4.3-7.5 8.8-27 56-146 0.6-0.7 20-22 10-43 12-22 2.5-4.6 20-36 11-19 0.6-0.9 95-114 43-44 39-70				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/1048	Antimony	1.3-4.6				
	Arsenic	6-9.8				
	Barium	59-126				
	Chromium	12-17				
	Cobalt	10-32				
	Copper	11-22				
	Mercury	2.5-4.6				
	Nickel	20-36				
	Lead	11-19				
	Silver	0.6-0.9				
	Thallium	84-98				
	Vanadium	43-44				
	Zinc	39-70				
	B/943A	Toluene	0.02-0.08			
Xylene		0.01-0.02				
Arsenic		4.3-12				
Barium		21-163				
Beryllium		0.5-0.9				
Chromium		8.9-33				
Cobalt		3.4-12				
Copper		5.6-55				
Mercury		1.0-1.7				
Nickel		21-33				
Lead		8.1-24				
Silver		0.7-0.8				
Thallium		33-67				
Vanadium		55-79				
Zinc	23-56					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
Northridge	Antimony	2.3-4.6					
	Arsenic	8.2-25					
	Barium	23-67					
	Beryllium	0.5-0.6					
	Chromium	21-33					
	Cobalt	10-46					
	Copper	12-22					
	Mercury	1.5-3.6					
	Nickel	21-44					
	Lead	11-16					
	Silver	0.6-0.7					
	Thallium	23-66					
	Vanadium	48-89					
	Zinc	33-66					
	B/774 N	Antimony	0.5-1.1				
		Barium	67-120				
Beryllium		0.3-0.5					
Chromium		7.5-13					
Cobalt		0.6-4.4					
Molybdenum		0.4-0.9					
Mercury		0.7-5.3					
Nickel		1.3-2.1					
Lead		3.3-7.9					
Selenium		0.3-0.6					
Silver		0.1-0.3					
Thallium		45-66					
Vanadium		33-82					
Zinc		25-69					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
Magpie Creek/ Bailey Loop	Antimony	1.3-4.6					
	Arsenic	6-9.8					
	Barium	59-126					
	Beryllium	12-17					
	Chromium	10-32					
	Cobalt	11-22					
	Copper	12-23					
	Mercury	2.5-3.6					
	Nickel	20-36					
	Lead	11-19					
	Silver	0.6-0.9					
	Thallium	84-98					
	Vanadium	43-44					
	Zinc	39-70					
	IWTP Basin	Antimony	1.4-14				
		Arsenic	3.1				
Barium		31-140					
Beryllium		0.1					
Cadmium		14-16					
Chromium		41-403					
Cobalt		19-48					
Molybdenum		1.3-2					
Mercury		1.8-2.5					
Nickel		2.5-10					
Lead		31-125					
Selenium		2.3-5.0					
Silver		13-24					
Thallium		5.3-9					
Vanadium		5-19					
Zinc		117-457					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
Taxiways 8 & 9	Barium	12-17					
	Chromium	2.3-3.1					
	Cobalt	2.1-3.3					
	Copper	10-14					
	Nickel	21-44					
	Lead	11-16					
	Silver	0.6-0.7					
	Thallium	23-66					
	Vanadium	48-89					
	Zinc	33-66					
	B783 I Street	Barium	71				
		Beryllium	0.6				
		Chromium	10				
Cobalt		2.6					
Copper		9					
Molybdenum		3.1					
Nickel		6.8					
Lead		13.4					
Selenium		1.9					
Silver		0.5					
Vanadium		12					
Zinc		19					
CE Soil Yard		Dichloromethane	0.2-0.5				
	Antimony	1.3-2.6					
	Arsenic	0.5-1.3					
	Barium	23-73					
	Beryllium	0.5-1.6					
	Chromium	1.8-3.1					
	Cobalt	1.0-5.9					
	Copper	12-22					
	Mercury	1.5-3.6					
	Nickel	21-44					
	Lead	11-16					
	Silver	0.6-0.7					
	Thallium	12-36					
Vanadium	18-29						
Zinc	13-16						

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
Capehart Service Station	Antimony	0.4-0.6				
	Arsenic	0.6				
	Barium	31-44				
	Beryllium	0.5-0.6				
	Cadmium	1.1-1.3				
	Chromium	0.5-1.4				
	Cobalt	1.2-3.1				
	Molybdenum	0.3-1.2				
	Mercury	1.8-2.1				
	Nickel	2.5-10				
	Lead	2.4-2.8				
	Selenium	0.2-0.8				
	Silver	0.2-0.3				
	Thallium	5.3-9.1				
	Vanadium	5-11				
	Zinc	117-457				
	B/209 Soil Piles	Barium	61-84			
Beryllium		0.2-0.4				
Cadmium		0.3-0.4				
Chromium		5-6.3				
Cobalt		1.6-3.4				
Molybdenum		0.3-1.1				
Mercury		1.8-2.6				
Nickel		2.5-10				
Lead		2.4-2.8				
Silver		0.5-0.9				
Thallium		2-7.1				
Vanadium		5-11				
Zinc		57-75				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
FAA N & S	Ethyl benzene	0.04-0.1				
	Toluene	0.2				
	Xylene	0.1				
	Antimony	1.3-2.2				
	Arsenic	8.2-25				
	Barium	23-64				
	Beryllium	0.5-0.6				
	Chromium	21-33				
	Cobalt	10-46				
	Copper	12-22				
	Mercury	1.5-3.6				
	Nickel	21-44				
	Lead	11-16				
	Silver	0.6-0.7				
	Thallium	23-66				
	Vanadium	48-89				
	Zinc	33-66				
B/431	Ethyl benzene	0.02				
	Toluene	0.16				
	Xylene	0.25				
	TPH	384-508				
	Antimony	0.9-1.5				
	Arsenic	8.8-27				
	Barium	56-116				
	Beryllium	0.6-0.7				
	Chromium	20-22				
	Cobalt	10-43				
	Copper	12-22				
	Mercury	2.5-4.6				
	Nickel	20-36				
	Lead	11-19				
	Silver	0.6-0.9				
	Thallium	95-114				
	Vanadium	43-44				
Zinc	39-70					

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
B/650 NE	Antimony Arsenic Barium Beryllium Chromium Cobalt Copper Mercury Nickel Lead Silver Thallium Vanadium Zinc	1.3-2.6 0.5-1.3 23-73 0.5-1.6 1.8-3.1 1.0-5.9 12-22 1.5-3.6 21-44 11-16 0.6-0.7 12-36 18-29 13-16				
B/712 Rifle Range	Ethyl benzene Toluene Xylene	0.04 0.1 0.2				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments	
Sling Test Facility	Anthraene	3-4					
	Benzo[a]anthracene	7.3					
	Benzo[b]fluoranthene	7.6					
	Benzo[a]fluoranthene	6.8					
	Benzo[g,h,i]perlyene	1.9					
	Chrysene	8					
	Dibenzofuran	0.6					
	Fluoranthene	15.3					
	Fluorene	11.1					
	Indeno[1,2,3-cd]pyrene	4.6					
	Phenanthrene	12.1					
	Pyrene	15					
	Arsenic	0.8-1.2					
	Barium	23-44					
	Beryllium	0.1-0.3					
	Chromium	12-33					
	Cobalt	16-19					
	Copper	1.6-11					
	Nickel	9-23					
	Lead	3.8-12					
Silver	0.2-0.3						
Thallium	25-69						
Vanadium	22-47						
Zinc	45-123						

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
ADAL Paint Complex	Ethyl benzene	0.04-0.1				
	Toluene	0.2				
	Antimony	1.3-2.2				
	Arsenic	8.2-25				
	Barium	23-64				
	Beryllium	0.5-0.6				
	Chromium	21-33				
	Cobalt	10-46				
	Copper	12-22				
	Mercury	1.5-3.6				
	Nickel	21-44				
	Lead	11-16				
	Silver	0.6-0.7				
	Thallium	23-66				
Vanadium	48-89					
Zinc	33-66					
B/241	Ethyl benzene	0.3-4.3				
	Toluene	0.1-0.6				
	Xylene	0.5-12				
WTP - Free Oil Samples	TPH	450-13200				
	TPH	437-703				
B/340	Ethyl benzene	0.1				
	Toluene	0.2				
	Xylene	0.1				

Table 10
List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
IW Lines	Antimony Arsenic Barium Beryllium Chromium Cobalt Copper Mercury Nickel Lead Silver Thallium Vanadium Zinc	0.7-0.8 0.5-1.6 24-58 0.5-0.7 1.8-3.1 1.0-5.9 12-22 1.5-3.6 21-44 11-16 0.6-0.7 12-36 18-29 13-16				
Site 6 & 7 E & W	Antimony Arsenic Barium Beryllium Chromium Cobalt Copper Mercury Nickel Lead Silver Thallium Vanadium Zinc	1.3-2.1 8.2-25 23-67 0.5-0.6 21-33 10-46 12-22 1.5-3.6 21-44 11-16 0.6-0.7 23-66 48-89 33-66				
IWTP (Spill)	TPH	1464-1710				

Table 10

List of Contaminants by Building or Location

Building or Location No. & Description	Contaminants	Concentration Range (mg/kg)	No. of Samples	Approx. Depth of Samples (ft)	Approx. Site Area (ft ²)	Comments
UST B/351 A,B,C	Ethyl benzene	0.1				
	Toluene	0.2				
	Xylenes	0.5				
	TPH	420				
	Antimony	3.3-5				
	Arsenic	8.3-17				
	Barium	91-146				
	Beryllium	0.6-0.7				
	Chromium	20-23				
	Cobalt	10-43				
	Copper	12-22				
	Mercury	2.5-3.6				
	Nickel	20-28				
	Lead	11-33				
	Silver	0.6-0.7				
Thallium	46-75					
Vanadium	43-64					
Zinc	0.9-5					

Appendix A
DATA REVIEW OF ADMINISTRATIVE RECORD

DATA REVIEW OF ADMINISTRATIVE RECORD

1. Final Report for Groundwater Contamination as of 30 April 81; Brunner and Zipfel; 4/30/81.
Missing from Shelf.
2. Installation Restoration Program (IRP) Records Search; CH2M HILL; 7/81.
Record search and identification of contamination, etc.
May be some relevant data, but most of it is contained in more recent documents.
3. IRP Phase II Confirmation Vol. 1 & 2 Final Report; Engineering Science; 6/83.
Report to determine groundwater contamination and recommend measures to mitigate contaminated areas, develop monitoring program.

A few good cross sections and some soil sampling results. Some TCE contamination info.
4. IRP Phase III/IV Area D Site Characterization Tech Memo 1 & Tech. Memo 3.; CH2M HILL; 8/84.
Includes hydrogeologic evaluation and large geologic sections.
5. Interim Presurvey Report Phase II Stage 2, Activities and IRP Work Plan; Radian; 9/28/84.
Proposal for work. See No. 8.
6. Source Control Feasibility Study Area D; CH2M HILL; 9/84.
Compares alternatives for controlling existing hazardous waste disposal sites. Summary of Site Characterization (No. 4).
7. IRP Phase III/IV Area D Site Characterization Study; CH2M HILL; 10/84.
Details sites in Area D. Assesses character of wastes and extent of soil contamination. Some cross sections and boring logs, but should be more recent data.
- 8&9. IRP Phase II Stage 2-1 Draft Final Report; Radian; 11/1/84.
Some good cross sections. No. 13 is Final.
10. IRP Phase III/IV Area D-Final Report; CH2M HILL; 2/85.
See also Nos. 4, 6 & 7
Source Control Feasibility Study & Site Characterization study. Shows groundwater contamination and geologic fence diagram. Proposes well locations, cap locations, source control.

11. Site Characterization of A, B, C and Other Sites; McLaren; 3/85.
Summarizes IRP/FS data previously gathered. Lots of cross sections, groundwater contours, water and waste sample borings, extent of TCE and other contamination.
12. 10% Submittal Design Analysis for MTN Groundwater Cleanup, Area D, Membrane Cover Installation; CH2M HILL; 3/27/85.
See No. 14 for Final.
13. IRP Phase II Stage 2-1 Final; Radian; 5/85.
Detailed discussions of results for 13 tasks in this stage. Some good cross sections.
14. Design Analysis for MTN Groundwater Cleanup Area D, Cap Installation; CH2M HILL; 5/85.
Final design analysis for major elements of cap installation.
15. Area D Monitoring Extraction Tech. Report No. 1; McLaren; 7/85.
System confirmation by computer modeling. Contains background data and chemical quality of groundwater in Area D. Some discussion of hydraulic conductivity.
16. IRP Phase II Stage 2 Resampling of Monitoring Wells-Tech. Report; Radian; 7/11/85.
Describes resampling and reanalysis effort, as well as the analytical results, for 45 wells. Original sampling and analysis was done in Fall '84.
17. Off-Base Quarterly Sampling and Analysis; Radian; 8/85.
Off-Base.
18. Proposal for Initial Groundwater Treatment System Area D; Metcalf & Eddy; 8/16/85.
Proposes using vapor phase carbon adsorber for treatment system.
19. Groundwater Monitoring Program for Surface Impoundments at IWTP; McLaren; 9/26/85.
Deals primarily with Area C1, some cross sections through sites with chemical analysis.
20. Hydrogeologic Assessment Report for Surface Impoundments Area C; INEL; 9/85.
& Missing from Shelf
21. See No. 134 & 135 for similar, more recent document.

22. MAFB Off-Base Well Survey Vol. 1-31 & Tech. Report; Radian; 1985.
thru
53. Off-Base.
54. Area D Monitoring/Extraction System Tech. Report No. 2; McLaren; 1/86.
No. 15 is Tech. Report 1.
Testing of initial extraction well and system confirmation by computer modeling. Results of 30-day aquifer test (recommended in No. 15), data from monitoring wells, results from computer modeling and water quality data. Lots of borehole lithology.
55. Tech Memo for Shallow Investigation Program in areas A, B, C and other Sites-Area A; McLaren; 2/86.
See also Nos. 60, 61, 64.
Presents results of shallow exploration program for 5 sites in area A. Lots of soil boring logs. Details results at each site. Collected to lead to RAP (No. 64).
56. Tech Memo for Shallow Investigation Program in Areas A, B, C, and Other Sites-Area B; McLaren; 2/86.
See also Nos. 57, 62, 63.
Presents results of shallow exploration program at 5 sites in Area B. Lots of soil boring logs. Details results at each site. Collected to lead to RAP (No. 62).
57. Area B Site Characterization Groundwater Report; McLaren; 2/86.
See also Nos. 56, 62, 63.
Presents results of source area groundwater program in Area B. Water level contour maps, distribution of contaminants, borehole lithology. Collected to lead to RAP (No. 62).
58. MAFB Off-Base Well Sampling and Analysis; Radian; 2/86.
Off-Base
59. Tech. Memo for Shallow Investigation Program for A, B, C and other Sites-Other Sites; McLaren; 4/86.
See also No. 68.
Six sites not in area A, B, C, or D. Presents results of shallow exploration program at these sites. Details results at each site, cross-sections of sites, soil boring logs and chemical analysis.
60. Report on Contamination in Area A; McLaren; 4/86.
See also Nos. 55, 61, 64.
Brings together groundwater info and soil info to lead to RAP (No. 64). Cross sections of sites with contamination, chemical results from soil samples, water level contours.

61. Area A Site Characterization Groundwater Report; McLaren; 4/86.
See also Nos. 62, 64, 55.
Presents results of source area groundwater program in area A. Water level contour maps, distribution of contaminants, borehole lithology. Collected to lead to RAP (No. 64).
62. Area B Source Control Feasibility Study and Remedial Action Plan (RAP); McLaren; 4/86.
See also Nos. 56, 57, 63
To develop alternative solutions for contaminated sites in Area B. Cross sections of sites with positive chemical results, vertical & horizontal distributions of TCE.
63. Report on Contamination in Area B; McLaren; 4/86.
See also Nos. 56, 57, 62.
Brings together groundwater and soil info to lead to RAP(No. 62). Cross sections of sites with contamination, chemical results from soil samples, water level contours.
64. Area A Source Control Feasibility Study and Remedial Action Plan (RAP); McLaren; 5/86.
See also Nos. 55, 60, 61
To develop alternative solutions for contaminated sites in Area A. Cross section of sites, vertical and horizontal distribution of TCE.
65. Area C Site Characterization Groundwater Report; McLaren; 5/86.
See also Nos. 75, 76
Presents results of source area groundwater program in area C. Water level contour maps, borehole lithology, distribution of contaminants. Collected to lead to RAP (No. 76).
66. Off-Base Well Sampling Second Quarter, Analytical Results, Physical Analysis
& 67. and Appendices; Radian: 5/86.
Off-Base
68. Other Areas Site Control Feasibility Study and Remedial Action Plan (RAP); McLaren; 5/86.
For mitigating soil and groundwater contamination of sites not in Area A, B, C or D. Vertical distributions of soil contamination, some chemical concentrations in groundwater.
69. Tech Memo for Shallow Investigation Program in A, B, C and Others-Area C
thru Site Characterization; McLaren; 5/86.
71. Data collected to assist in RAP for Area C. Goes into a lot of detail about each site in Area C. Analytical results from borings, aerial photographs.

72. IRP Sampling and Analysis Program, Round 3, Informal Tech. Memo; Radian; thru 6/86.
74. Sample results and analysis, and raw laboratory data for groundwater monitoring wells.
75. Report of Contamination in Area C; McLaren; 6/86.
To help develop RAP (No. 76). Details the extent of groundwater and soil contamination in Area C, each site. Positive analytical results from boring, cross-sections of sites with positive chemical results.
76. Area C Source Control Feasibility Study and Remedial Action Plan (RAP); McLaren; 6/86.
To mitigate groundwater and soil contamination identified in No. 75. Some good vertical and horizontal distributions of TCE contamination.
77. Basewide Report on Contamination; McLaren, 7/86.
See No. 81 for Final.
Geologic cross-sections of all areas & specific sites. Discussion of geology & hydrology of all areas.
78. Off-Base Sampling & Analysis Third Quarter 1986; Radian; 8/86.
& 79. Off-Base
80. Acetone/Ketone Study; Metcalf & Eddy; 8/86.
Area D. Evaluates various methods of treating groundwater to get rid of acetone/ketones.
81. Final Basewide Report on Contamination; McLaren; 12/86.
Report on contamination in all areas. Pulls together data from previous reports. Leads to RAP (No. 82). Water contour maps, cross sections of sites with chemical results, some vertical distributions of soil contamination. Should be good source of info.
82. Final Basewide Source Control Feasibility Study & RAP; McLaren; 12/86.
Some discussion of geologic and hydrologic info. Vertical distributions of TCE in all areas.
83. Response to Regulatory Agencies and Air Force Comments on McLaren Site Characterization and RAP; McLaren; 12/86.
Responses to comments by EPA, DHS, Regional, City of Sac, AF HQ, etc. to No. 82.
84. IRP Phase II Stage 2-2, Final Report for 6/85-12/86; Radian; 12/86.
thru 86. Installation of 38 monitor wells on- and off-base; sampling and analysis. Plates showing elevation of water levels. Some geologic cross sections, etc. in No. 84. Shows occurrence of contaminants in wells.

87. Final Operations and Maintenance Manual for Area D Cap; CH2M HILL; 12/86.
Operations and maintenance manual, but may have some relevant info regarding cap. Shows utilities, cap cross section.
88. Operations and Maintenance Manual for Groundwater Treatment Facility; Metcalf and Eddy
89. Well Sampling and Analysis-Fourth Quarter 1986; Radian; 2/87.
thru These quarterly sampling reports show levels of contamination in wells.
93. Looking at them over a period of a few years might show how contamination
& has changed, migration of contaminants, etc. Also contains some good maps of
97. wells sampled and contamination found.
94. Area D Monitoring/Extraction System Tech. Report No. 4, Operation and Maintenance Manual; McLaren; 3/87.
Some good cross sections.
95. IRP-Interim Tech. Report Stage 2-3 Aquifer Testing and Evaluation; Radian; 3/87.
Determines hydrologic characteristics of local groundwater flow system. Should be good source of info.
96. 30-Day Performance Test Report for Groundwater Treatment Facility; Metcalf and Eddy; 4/87.
Groundwater from Area D. Lots of analysis of influent and effluent.
98. IRP-Phase IV-A Work Plan for Site Characterization Assessment- Museum Site: Oak Ridge National Lab.; 5/87.
Proposed museum site, south of Building 814, contaminated soil from aircraft maintenance.
99. IRP-Phase II Stage 2-4 Interim Tech. Report; Radian; 6/87.
& Further defines extent and magnitude of subsurface contamination. Installation
100. of wells. Good cross sections.
101. Quarterly Sampling and Analysis Program-First Quarter 1987 (No. 101 through 104), Second Quarter 1987(No. 106 through 110), Third Quarter 1987 (No. 113 through 120), Fourth Quarter 1987(No. 137 through 145); Radian; 6/87, 7/87, 10/87, 2/88.
Quarterly sampling reports for 1987. Might be good to see changes from previous and future quarterly reports.

105. Groundwater Sampling Protocol Manual for MAFB; Radian; 6/87.
Groundwater sampling protocol and instruction to be used with quarterly sampling. Not really any relevant info.
111. IRP-Phase II Stage 2-3 Subregional Groundwater Flow Monitoring; Radian; 8/87.
Develops conceptual model for groundwater system around Base. Some possibly relevant groundwater info.
112. IRP Phase IV-A Task No. 1-Site Characterization Assessment for Area D; Oak Ridge National Lab; 8/87.
Work Plan.
121. Supporting Documents for Monitoring and Extraction System, Area C; EG&G Idaho; 7/27/87.
Health and Safety Plan for Interim Extraction Project.
122. IRP Phase II Stage 2-5 Off-Base Remedial Investigation and Alternative Assessment Report; Radian; 10/87.
133. Off-Base
134. Hydrogeologic Assessment Report for Surface Impoundments-Area C; EG&G Idaho; 12/87.
135. Discusses waste characteristics, surface wells, groundwater, vadose zone. Some good cross sections.
136. Monthly Monitoring Reports-Area D; Metcalf and Eddy; 1/88 through 8/88.
Also Nos. 146, 147, 148, 149, 155, 156, 157. No. 163 is similar.
Useful for comparison.
150. IRP Stage 3-Groundwater Sampling and Analysis-First Quarter 1988 (No. 150 through 154), Second Quarter 1988(No. 159,160), Third Quarter 1988 (Nos. 164, 165, 168), Fourth Quarter 1988(Nos. 174, 176, 177, 178); Radian: 6/88, 9/88, 10/88, 3/89.
Groundwater sampling and analysis for 1988. Useful for comparison to earlier and later documents.
158. Dismantling of Building 666 and IWTP No. 4; Idaho National Engineering Lab; 8/88.
Building 666 was an electroplating shop in Area B. Describes cleanup. Shows depth of sumps, pits, and reservoirs after cleanup.
161. Quality Assurance Project Plan (QAPP); Radian; 9/88.
& QA/QC procedures for RI/FS at Base. Used by field sampling teams.
162.

163. Monthly Monitoring Report-Areas C & D; Metcalf and Eddy; 9/88 through 12/89.
Also Nos. 166, 167, 169, 171, 172, 173, 175, 179, 183, 185, 186, 187, 191, 193.
No. 136 is similar.
Useful for comparison.
170. IRP Stage 3 RI/FS Management Plan Draft Copy; Radian; 1/89.
Describes approach to be taken to incorporate results of previous investigations into RI/FS process.
180. Performance Work Statement-Decommission of Building 628; EG&G; 5/89.
Radioactive waste in rear of building 628 in Area B. Mostly about building-description, waste disposal, contamination, etc.
181. IRP Stage 5 Area B Groundwater Operable Unit RI Analytical Data and QA/QC Report-Groundwater Samples; Radian; 6/89.
Lots of groundwater sampling results, Area B.
182. IRP Stage 3 Groundwater Sampling and Analysis-First Quarter 1989 (No. 182), Second Quarter 1989 (No. 192), Third Quarter 1989 (Nos. 188,189,190,194), Fourth Quarter 1989 (Nos. 196,197,198); Radian; 6/89.
May be useful for comparison to each other. Good plates. Shows TCE contamination.
184. MAFB Interagency Agreement; MAFB; 6/89.
No relevant info.
195. IRP Stage 3 Annual Technical Report, Groundwater Sampling-1988; Radian; 11/89.
Examines analytical and hydrologic data collected through 12/88. Looks like a very good, up-to-date source of info. Shows contaminant distribution and migration for all areas. Good plates and maps.
199. IRP Stage 3 Letter of Recommendation for Continuance of Groundwater Sampling and Analysis Program; Radian; 3/90.
Defends continuance of groundwater sampling program.
200. Quarterly Geologic Monitoring Report-Area C and D; Metcalf and Eddy; 3/90.
Used to detect any groundwater level changes and relationship to extraction operation. Good plates. Might be useful to compare to earlier monthly monitoring (See No. 163).
201. IRP Stage 3 QA/QC Letter-Groundwater Sampling-January to March 1990;
thru Radian; 5/90.
203. Compare to earlier QA/QC Letters.

204. IRP Stage 3 Operable Unit B Preliminary Assessment Summary Report; Radian; 5/90.
206. Some contamination info for various sites.
207. IRP Stage 3 QAPP; Radian; 5/90.
Procedures for QA, QC activities.
208. IRP Stage 6-Preliminary Groundwater Operable Unit Remedial Investigation Sampling and Analysis; Radian; 2/90.
Scope of work, methods and rationale for Hydrogeologic assessment. Good, up-to-date cross sections and maps, discussions of hydrology.
209. IRP Stage 5-Analytical Data Summary: Preliminary Pathways Assessment-Surface Water and Stream Sediment Samples; Radian; 5/90.
Surface water contamination.
210. IRP Stage 3-Groundwater Sampling Data Summary-Fourth Quarter 1989; Radian; 5/90.
Should be good for comparison to earlier reports. Good plates (most up-to-date).
211. Administrative Record Correspondence 10/88 through 3/89.