

**Table 6.13**  
**Groundwater Inorganic Analytical Data**  
**Exceedences for PSC ST-18**  
**Luke AFB, Arizona**

Sample Date	Location	Analysis	Inorganic Constituents											
			Arsenic			Chromium			Lead			Zinc		
			AWQS	PRG	MCL	AWQS	PRG	MCL	AWQS	PRG	MCL	AWQS	PRG	MCL
			50.0	0.045	10.0	100	NE	100	15.0	NE	15.0	2,100	11,000	5,000
07/23/92	MW-4	Total	5.00			< 10.0			4.00			204		
07/18/92	MW-5	Total	19.0			115			26.0			8,700		
06/21/93	MW-5	Dissolved	< 5.00			< 10.0			16.0			506		
07/22/92	MW-114	Total	7.00			22.0			11.0			407		
		Dissolved	6.00			13.0			3.00			370		
11/30/92	MW-114	Total	6.00			17.0			4.00			344		
		Dissolved	5.00			18.0			2.00			310		
	Duplicate	Total	6.00			23.0			3.00			337		
		Dissolved	6.00			15.0			2.00			348		

Notes:

- Sample results are reported in micrograms per liter
- Shaded results exceed a standard
- Bold results indicate compound was detected

< less than  
 AWQS Arizona water quality standards  
 MCL Environmental Protection Agency maximum contaminant level  
 PRG Environmental Protection Agency Region 9 preliminary remediation goal

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**Table 6.14**  
**Soil Organic Analytical Data**  
**Exceedences for PSC DP-13**  
**Luke AFB, Arizona**

Sample Date	Location	Depth (ft bgs)	SVOCs																												
			Benzo(b) fluoranthene				Benzo(a) anthracene				Benzo(a) pyrene				Benzo(k) fluoranthene																
			ASRL		PRG		ASRL		PRG		ASRL		PRG		ASRL		PRG														
			Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.															
6.10		26.0		0.62		2.10		6.10		26.0		0.62		2.10		0.61		2.60		0.062		0.21		61.0		260		0.38		1.30	
03/08/93	13-SB-2	8-10	1.60				ND				ND				ND																
		14-16	2.60				1.10				0.89				ND																
	13-SB-4	0-2	1.40				ND				ND				ND																
11/07/91	13-TP-12	3	ND				0.21				0.18				0.37																
		6	0.42				Tr				0.20				ND																
08/23/96	13-SB-11	8-10	0.46				0.39				0.41				0.42																
		15-17	0.63				0.64				0.56				0.63																

- Notes:
- Sample results are reported in milligrams per kilogram
  - Shaded results exceed a standard
  - Bold results indicate compound was detected
  - Prior to 1994 tentatively identified compounds (TIC) were reported in unknown quantities
  - Data for VOC/SVOCs prior to 1996 sampling was determined to be of unknown quality; therefore, it cannot be used for decision-making purposes

ASRL Arizona soil remediation level  
 ft bgs feet below ground surface  
 Ind. industrial  
 ND not detected  
 PRG Environmental Protection Agency Region 9 preliminary remediation goal  
 Res. residential  
 SVOC semivolatile organic compound  
 Tr trace, unquantifiable amount detected

**Table 6.15**  
**Soil Organic Analytical Data**  
**Exceedences for PSC DP-23**  
**Luke AFB, Arizona**

Sample Date	Location	Depth (ft bgs)	SVOCs																			
			Benzo(a) anthracene				Benzo(a) pyrene				Benzo(b) fluoranthene				Benzo(k) fluoranthene				Chrysene			
			ASRL		PRG		ASRL		PRG		ASRL		PRG		ASRL		PRG		ASRL		PRG	
			Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.
		6.10	26.0	0.62	2.10	0.61	2.60	0.062	0.21	6.10	26.0	0.62	2.10	61.0	260	0.38	1.30	610	2600	3.80	13.0	
02/06/92	SB-2	0-2	0.29		0.35		0.50		ND		0.35											
04/14/92	SB-4	0-2	2.50		2.80		5.50		ND		3.60											
		0-2	6.60		3.30		1.30		5.80		7.50											
04/15/92	SB-5	0-2	1.10		1.40		4.00		ND		1.60											
12/09/91	SD-4	0-1	0.20		0.21		0.48		ND		0.48											
	SD-5	0-1	0.52		0.42		0.79		ND		1.00											

- Notes:
- Sample results are reported in milligrams per kilogram
  - Shaded results exceed a standard
  - Bold results indicate compound was detected
  - Prior to 1994 tentatively identified compounds (TIC) were reported in unknown quantities
  - Data for VOC/SVOCs prior to 1996 sampling was determined to be of unknown quality; therefore, it cannot be used for decision-making purposes

< less than  
ASRL Arizona soil remediation level  
ft bgs feet below ground surface  
Ind. industrial  
ND not detected  
PRG Environmental Protection Agency Region 9 preliminary remediation goal  
Res. residential  
SVOC semivolatile organic compound  
Tr trace, unquantifiable amount detected

**Table 6.16**  
**Soil Organic Analytical Data**  
**Exceedences for PSC FT-07E**  
**Luke AFB, Arizona**

Sample Date	Location	Depth (ft bgs)	VOCs			
			Xylenes (Total)			
			ASRL		PRG	
			Res.	Ind.	Res.	Ind.
			2,800	2,800	270	420
03/29/93	07-SB-6	8-10	600			
		18-20	290			
		28-30	290			

Notes:

- Sample results are reported in milligrams per kilogram
- Shaded results exceed a standard
- Bold results indicate compound was detected
- Prior to 1994 tentatively identified compounds (TIC) were reported in unknown quantities
- Data for VOC/SVOCs prior to 1996 sampling was determined to be of unknown quality; therefore, it cannot be used for decision-making purposes

ASRL     Arizona soil remediation level  
ft bgs     feet below ground surface  
Ind.       industrial  
PRG       Environmental Protection Agency Region 9 preliminary remediation goal  
Res.       residential  
VOC       volatile organic compound

**Table 6.17  
Soil Organic Analytical Data  
Exceedences for PSC LF-14  
Luke AFB, Arizona**

Sample Date	Location	Depth (ft bgs)	SVOCs							
			Polychlorinated Biphenyls				Benzo(a)pyrene			
			ASRL		PRG		ASRL		PRG	
			Res. 2.50	Ind. 13.0	Res. 0.22	Ind. 0.74	Res. 0.61	Ind. 2.60	Res. 0.062	Ind. 0.21
10/28/91	14-SB-02	0-2	0.74				ND			
10/29/91	14-SB-03	0-2	13.0				0.30			
		5-15	3.60				<0.17 Tr			
10/30/91	14-SB-04	0-2	1.50				ND			
04/06/93	14-SB-11	0-1	0.70				NA			
	14-SB-12	0-1	0.67				NA			
	14-SB-13	0-1	0.30				NA			
04/20/93	14-SB-08	0-2	37.0				NA			
		2-4	0.40				NA			
		8-10	91.0				NA			
		18-20	2,300				NA			
	14-SB-09	0-2	0.57				NA			
		8-10	0.27				NA			
08/11/93	14-SB-17	0-2	1.20				NA			
	14-SB-19	0-2	0.41				NA			

Notes:

- Sample results are reported in milligrams per kilogram
- Shaded results exceed a standard
- Bold results indicate compound was detected
- Prior to 1994 tentatively identified compounds (TIC) were reported in unknown quantities
- Data for SVOCs prior to 1996 sampling was determined to be of unknown quality; therefore, it cannot be used for decision-making purposes

ASRL Arizona soil remediation level  
 ft bgs feet below ground surface  
 Ind. industrial  
 NA not analyzed  
 ND not detected

PRG Environmental Protection Agency Region 9 preliminary remediation goal  
 Res. residential  
 Tr trace, unquantifiable amount detected  
 SVOC semivolatile organic compound

**Table 6.18**  
**Soil Organic Analytical Data**  
**Exceedences for PSC LF-25**  
**Luke AFB, Arizona**

Sample Date	Location	Depth (ft bgs)	SVOCs																				
			Benzo(a) anthracene				Benzo(a) pyrene				Benzo(b) fluoranthene				Benzo(k) fluoranthene				Indeno (1,2,3-cd) pyrene				
			ASRL		PRG		ASRL		PRG		ASRL		PRG		ASRL		PRG		ASRL		PRG		
			Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	Res.	Ind.	
				<b>6.10</b>	<b>26.0</b>	<b>0.62</b>	<b>2.10</b>	<b>0.61</b>	<b>2.60</b>	<b>0.062</b>	<b>0.21</b>	<b>6.10</b>	<b>26.0</b>	<b>0.62</b>	<b>2.10</b>	<b>61.0</b>	<b>260</b>	<b>0.38</b>	<b>1.30</b>	<b>6.10</b>	<b>26.0</b>	<b>0.62</b>	<b>2.10</b>
10/21/91	25-TP-10	2			<b>1.20</b>					<b>1.50</b>					<b>2.30</b>								<b>0.90</b>
10/23/91	25-TP-15	7			<b>0.57</b>					<b>0.42</b>					<b>0.75</b>								<b>0.25</b>
08/23/96	25-SB-5	8-10			<b>0.12 J</b>					<b>0.10 J</b>					<b>0.21 J</b>								<b>ND</b>

Notes:

- Sample results are reported in milligrams per kilogram
- Shaded results exceed a standard
- Bold results indicate compound was detected
- Prior to 1994 tentatively identified compounds (TIC) were reported in unknown quantities
- Data for SVOCs prior to 1996 sampling was determined to be of unknown quality; therefore, it cannot be used for decision-making purposes

ASRL Arizona soil remediation level  
 ft bgs feet below ground surface  
 Ind. industrial  
 J estimated concentration  
 ND not detected  
 PRG Environmental Protection Agency Region 9 preliminary remediation goal  
 Res. residential  
 SVOC semivolatile organic compound