

Shiloh and Galaxy Housing
Site SS045 Remedial Investigation
Summary of Soil Analytical Results and Exceedances
Sample Dates: November 2024 and March 2025
Scott Air Force Base, Illinois

Building	Sample ID	Neighborhood	Lead	Benzo(a)anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Dibenz(a,h) anthracene	Indeno(1,2,3-cd)pyrene	Naphthalene	Aldrin	4,4'-DDT	Dieldrin	Heptachlor epoxide	Toxaphene
	USEPA Resident Risk-Based Removal Management Levels (RML) for Soil (µg/kg)		200,000*	113,000	11,500	115,000	1,150,000	11,500	115,000	201,000	3,930	110,000	3,390	3,050	17,100
	USEPA Residential Soil Regional Screening Level (RSL) (µg/kg)		200,000	1,100	110	1,100	11,000	110	1,100	2,000	39	1,900	34	70	490
1483	SS045-GAL01-001	Galaxy	--	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	5.4 U	5.4 U	2.69 J	2.7 U	54 U
1483	SS045-GAL01-DUP	Galaxy	--	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.6 U	5.6 U	2.67 J	2.8 U	56 U
1483	SS045-GAL02-001	Galaxy	--	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	7.4 U	7.4 U	1.84 J	3.7 U	74 U
1485	SS045-GAL03-001	Galaxy	--	130 U	130 U	130 U	130 U	130 U	130 U	130 U	6 U	6 U	2.24 J	3 U	60 U
1483	SS045-GAL04-001	Galaxy	--	130 U	130 U	130 U	130 U	130 U	130 U	130 U	6 U	6 U	3.76 J	3 U	60 U
1481	SS045-GAL05-001	Galaxy	--	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.6 U	5.6 U	17.5	2.8 U	56 U
1481	SS045-GAL06-001	Galaxy	--	140 U	140 U	140 U	140 U	140 U	140 U	140 U	5.2 U	5.2 U	2.58 J	2.6 U	52 U
1471	SS045-GAL07-001	Galaxy	--	120 U	120 U	120 U	120 U	120 U	120 U	120 U	5 U	5 U	2.11 J	2.5 U	50 U
1471	SS045-GAL07-002	Galaxy	--	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	4.9 U	49 U	2.5 U	2.5 U	490 U
1471	SS045-GAL07-003	Galaxy	--	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.1 U	51 U	7.07	2.6 U	510 U
1471	SS045-GAL08-001	Galaxy	--	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.9 U	2.96 J	2.34 J	2.5 U	49 U
1434	SS045-GAL09-001	Galaxy	--	63.9 J	118 J	215 J	85.2 J	130 U	115 J	130 U	5.7 U	5.7 U	3.29 J	2.9 U	57 U
1432	SS045-GAL10-001	Galaxy	--	89 J	142 J	247 J	92.2 J	130 U	100 J	130 U	5.4 U	5.4 U	2.28 J	2.7 U	54 U
1428	SS045-GAL12-001	Galaxy	16000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	5.4 U	5.4 U	2.7 U	2.7 U	54 U
1426	SS045-GAL13-001	Galaxy	14000	120 U	120 U	120 U	120 U	120 U	55.4 J	120 U	5.1 U	5.1 U	3.21 J	2.6 U	51 U
1426	SS045-GAL14-001	Galaxy	22000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	5 U	6.72 J	3.23 J	2.5 U	50 U
1426	SS045-GAL14-002	Galaxy	13000	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.1 U	5.1 U	2.5 U	2.5 U	51 U
1426	SS045-GAL14-003	Galaxy	10000	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5 U	5 U	2.5 U	2.5 U	50 U
1428	SS045-GAL15-001	Galaxy	15000	63 J-	71.8 J-	114 J-	120 UJ	120 UJ	52.9 J-	120 UJ	5.1 U	5.1 U	2.81 J	2.6 U	51 U
1428	SS045-GAL16-001	Galaxy	15000	130 U	73.9 J	142 J	130 U	130 U	66.9 J	130 U	4.8 U	4.8 U	3.35 J	2.4 U	48 U
1422	SS045-GAL17-001	Galaxy	13000	130 U	66 J	79.2 J	130 U	130 U	130 U	130 U	5.2 U	5.2 U	2.6 U	2.6 U	52 U
1424	SS045-GAL18-001	Galaxy	--	140 U	58.1 J	92.1 J	140 U	140 U	140 U	140 U	5.7 U	5.7 U	2.26 J	2.8 U	57 U
1424	SS045-GAL19-001	Galaxy	13000	359	467	898	300	70.5 J	310	140 U	5.4 U	5.4 U	2.7 U	2.7 U	54 U
1420	SS045-GAL20-001	Galaxy	18000 J-	231 J	308	552	235 J	120 U	219 J	120 U	5.1 U	5.1 U	2.5 U	2.5 U	51 U
1420	SS045-GAL21-001	Galaxy	22000	130 UJ	65.7 J-	89.6 J-	130 UJ	130 UJ	130 UJ	130 UJ	5.4 U	5.4 U	1.63 J	2.7 U	54 U
1420	SS045-GAL21-DUP	Galaxy	23000	130 U	63.4 J	88.3 J	130 U	130 U	130 U	130 U	5.1 U	5.1 U	1.53 J	2.5 U	51 U
1423	SS045-GAL22-001	Galaxy	--	587	663	1160	422	157 J	450	140 U	5.5 U	5.5 U	2.8 U	2.8 U	55 U
1423	SS045-GAL23-001	Galaxy	--	130 UJ	62.1 J-	118 J-	130 UJ	130 UJ	93.3 J-	130 UJ	3.17 J	53 U	5.15 J	2.6 U	530 U
1423	SS045-GAL23-002	Galaxy	--	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.1 U	51 U	2.6 U	2.6 U	510 U
1423	SS045-GAL23-003	Galaxy	--	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.4 U	54 U	2.7 U	2.7 U	540 U
1423	SS045-GAL23-DUP	Galaxy	--	120 U	120 U	120 U	120 U	120 U	60.9 J	120 U	3.45 J	48 U	5.59	2.4 U	480 U
1423	SS045-GAL24-001	Galaxy	--	140 U	79.8 J	104 J	140 U	140 U	77.8 J	140 U	5.5 U	5.5 U	7.22	2.7 U	55 U
1423	SS045-GAL25-001	Galaxy	--	140 U	63.4 J	83.3 J	140 U	140 U	79 J	140 U	5.8 U	5.8 U	4.63 J	2.9 U	58 U
1458	SS045-GAL26-001	Galaxy	15000	192 J	265	530	163 J	95.8 J	159 J	120 U	4.8 J	9.37	69.9	2.46 J	47 U
1458	SS045-GAL27-001	Galaxy	14000	56 J	107 J	179 J	95.9 J	130 U	92.7 J	130 U	5.4 U	3.09 J	2.7 U	2.7 U	54 U
1457	SS045-GAL28-001	Galaxy	--	101 J	130 J	276 J	76 J	140 U	75.2 J	140 U	5.5 U	5.5 U	2.7 U	2.7 U	55 U
1453	SS045-GAL29-001	Galaxy	--	743	916	1740	587	90.1 J	429	120 U	5.1 U	5.1 U	2.5 U	1.39 J	51 U
1457	SS045-GAL30-001	Galaxy	--	80.1 J-	88.4 J-	243 J-	82.2 J-	130 UJ	130 UJ	130 UJ	5 UJ	5 U	8.69 J-	2.61 J-	50 U
1455	SS045-GAL31-001	Galaxy	--	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.2 U	2.84 J	1.93 J	2.6 U	52 U
1455	SS045-GAL31-DUP	Galaxy	--	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.9 U	5.03 J	2.45 J	2.5 U	49 U
1455	SS045-GAL32-001	Galaxy	--	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	5.3 U	6.59 J	5.27 J	2.6 U	53 U
1453	SS045-GAL33-001	Galaxy	--	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.8 U	48 U	2.4 U	2.4 U	480 U
1453	SS045-GAL33-002	Galaxy	--	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5 U	50 U	2.5 U	2.5 U	500 U
1453	SS045-GAL33-003	Galaxy	--	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	5.2 U	52 U	2.6 U	2.6 U	520 U
1453	SS045-GAL34-001	Galaxy	--	130 U	57.4 J	89 J	130 U	130 U	130 U	130 U	5.2 U	3.1 J	2.97 J	2.6 U	52 U
1451	SS045-GAL35-001	Galaxy	--	1150	1400	2530	853	177 J	713	130 U	5.3 U	4.47 J	2.6 U	2.6 U	53 U
1451	SS045-GAL36-001	Galaxy	--	196 J-	240 J-	426 J-	144 J-	130 UJ	144 J-	130 UJ	5.2 U	5.2 U	6.21	2.6 U	52 U
1451	SS045-GAL36-DUP	Galaxy	--	149 J	220 J	449	133 J	130 U	119 J	130 U	5 U	5 U	4.74 J	2.5 U	50 U
1451	SS045-GAL37-001	Galaxy	--	140 U	66.7 J	132 J	140 U	140 U	140 U	140 U	5.3 U	5.3 U	3.2 J	2.7 U	53 U

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	USEPA Resident Risk-Based Removal Management Levels (RML) for Soil (µg/kg)		200,000*	113,000	11,500	115,000	1,150,000	11,500	115,000	201,000	3,930	110,000	3,390	3,050	17,100
	USEPA Residential Soil Regional Screening Level (RSL) (µg/kg)		200,000	1,100	110	1,100	11,000	110	1,100	2,000	39	1,900	34	70	490
1441	SS045-GAL38-001	Galaxy	17000	53.3 J	76 J	166 J	130 U	130 U	130 U	130 U	5.1 U	8.99	2.28 J	2.5 U	51 U
1447	SS045-GAL39-001	Galaxy	25000	120 U	120 U	65.3 J	120 U	120 U	120 U	120 U	171 J+	20.5	259 J+	2.3 U	47 U
1445	SS045-GAL40-001	Galaxy	16000	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.1 U	19.2 J+	2.16 J	2.5 U	51 UJ
1443	SS045-GAL41-001	Galaxy	16000	130 U	60.3 J	81.6 J	130 U	130 U	66.9 J	130 U	6.94 J	51 U	9.12	2.6 U	510 U
1443	SS045-GAL41-002	Galaxy	11000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	5 U	50 U	2.5 U	2.5 U	500 U
1443	SS045-GAL41-003	Galaxy	7000	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5 U	50 U	2.5 U	2.5 U	500 U
1427	SS045-GAL42-001	Galaxy	39000	179 J	250 J	437	174 J	91.1 J	178 J	130 U	5.3 U	5.3 U	12.6	1.46 J	53 U
1427	SS045-GAL43-001	Galaxy	24000	333	431	818	308	111 J	241 J	130 U	3.23 J	5.2 U	51.4	2.33 J	52 U
1427	SS045-GAL44-001	Galaxy	18000	260	353	607	264	92 J	186 J	120 U	4.9 U	4.9 U	9.37	1.6 J	49 U
1448	SS045-GAL45-001	Galaxy	23000	77.7 J	136 J	278 J	112 J	140 U	131 J	140 U	5.6 U	5.6 U	2.8 U	1.82 J	56 U
1448	SS045-GAL46-001	Galaxy	18000	83 J	203 J	375	171 J	100 J-	149 J-	120 U	4.5 U	4.5 U	3.02 J	2.2 U	45 U
1448	SS045-GAL46-DUP	Galaxy	15000	171 J-	200 J-	355 J-	97.9 J-	95.9 J-	195 J-	120 UJ	5 U	5 U	3.99 J	2.5 U	50 U
1448	SS045-GAL47-001	Galaxy	27000	252 J-	286 J-	496 J-	184 J-	119 J-	269 J-	140 UJ	5.6 U	15.3	25.5	4.21 J	56 U
1446	SS045-GAL49-001	Galaxy	14000	120 U	120 U	120 U	120 U	120 U	54 J	120 U	4.9 U	49 U	2.32 J	2.4 U	490 U
1446	SS045-GAL49-002	Galaxy	10000 J	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.1 U	51 U	2.6 U	2.6 U	510 U
1446	SS045-GAL49-003	Galaxy	9300	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.9 U	49 U	2.4 U	2.4 U	490 U
1446	SS045-GAL49-DUP	Galaxy	24000 J	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.3 U	53 U	2.6 U	2.6 U	530 U
1446	SS045-GAL50-001	Galaxy	26000 J-	98.4 J-	110 J	203 J	76.9 J-	77.4 J-	131 J-	130 U	5.4 U	28.2 J	31.9 J-	8.03	54 U
1465	SS045-GAL51-001	Galaxy	10000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.8 U	48 U	2.4 U	2.4 U	480 U
1465	SS045-GAL51-002	Galaxy	10000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.7 U	47 U	2.4 U	2.4 U	470 U
1465	SS045-GAL51-003	Galaxy	12000	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.1 U	51 U	2.5 U	2.5 U	510 U
1479	SS045-GAL52-001	Galaxy	13000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	5 U	5 U	1.76 J	2.5 U	50 U
1475	SS045-GAL53-001	Galaxy	12000	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	9.36	4.9 U	5.96	2.4 U	49 U
1481	SS045-GAL54-001	Galaxy	20000	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	5.4 U	5.4 U	2.7 U	2.7 U	54 U
1481	SS045-GAL55-001	Galaxy	14000	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	4.9 U	4.9 U	2.5 U	2.5 U	49 U
1434	SS045-GAL56-001	Galaxy	11000 J	130 U	130 U	130 U	130 U	130 U	130 U	130 U	6 U	6 U	3.44 J	3 U	60 U
1434	SS045-GAL56-DUP	Galaxy	16000 J	51.2 J	77.4 J	161 J	66.5 J	120 U	63.4 J	120 U	5.5 U	5.5 U	2.88 J	2.7 U	55 U
1422	SS045-GAL57-001	Galaxy	17000	140 UJ	79.8 J-	110 J-	140 UJ	140 UJ	140 UJ	140 UJ	5.5 U	5.5 U	4.54 J	2.8 U	55 U
1473	SS045-GAL58-001	Galaxy	13000	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	5.1 U	5.1 U	1.15 J	2.5 U	51 U
1469	SS045-GAL59-001	Galaxy	13000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.9 U	3.71 J+	2.72 J	2.5 U	49 U
1469	SS045-GAL59-002	Galaxy	12000	130 U	130 U	130 U	130 U	130 U	130 U	130 U	4.9 U	4.9 U	2.5 U	2.5 U	49 U
1469	SS045-GAL59-003	Galaxy	8400	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.2 U	5.2 U	2.6 U	2.6 U	52 U
1459	SS045-GAL60-001	Galaxy	15000	140 U	140 U	140 U	140 U	140 U	140 U	140 U	5.4 U	5.4 UJ	2.58 J	2.58 J	54 UJ
1461	SS045-GAL61-001	Galaxy	12000	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	5.2 U	5.2 U	3.24 J	2.6 U	52 U
1421	SS045-GAL62-001	Galaxy	17000	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	120 UJ	5 U	3.4 J	3.9 J	2.5 U	50 U
1421	SS045-GAL62-002	Galaxy	12000	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	130 UJ	5.2 U	5.2 U	2.6 U	2.6 U	52 U
1421	SS045-GAL62-003	Galaxy	10000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.8 U	4.8 U	2.4 U	2.4 U	48 U
1458	SS045-GAL63-001	Galaxy	14000	98.5 J-	117 J-	169 J-	95.8 J-	120 UJ	89.1 J-	120 UJ	4.9 U	4.9 U	4.77 J	2.4 U	49 U
1458	SS045-GAL64-001	Galaxy	17000	59.9 J	78.3 J	140 J	130 U	130 U	87.2 J	130 U	5.3 U	3.83 J	4.36 J	2.6 U	53 U
1429	SS045-GAL65-001	Galaxy	15000	130 U	130 U	130 U	130 U	130 U	57.3 J	130 U	5.2 U	2.72 J+	3.75 J	2.6 U	52 U
1429	SS045-GAL65-002	Galaxy	6900	120 U	120 U	120 U	120 U	120 U	120 U	120 U	5 U	5 U	2.5 U	2.5 U	50 U
1429	SS045-GAL65-003	Galaxy	8300	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.1 U	5.1 U	2.5 U	2.5 U	51 U
1429	SS045-GAL66-001	Galaxy	21000 J	485	576 J	1100 J	398 J	123 J	305	140 U	5.7 U	4.4 J	2.8 U	2.8 U	57 U
1429	SS045-GAL66-DUP	Galaxy	30000 J	238 J	363 J	708 J	258 J	124 J	265 J	170 U	6.7 U	6.7 U	5.18 J	3.3 U	67 U
1430	SS045-GAL67-001	Galaxy	19000	55.1 J	74.9 J	149 J	130 U	130 U	56 J	130 U	5.4 U	5.4 U	3.79 J	2.7 U	54 U
1426	SS045-GAL68-001	Galaxy	18000	130 UJ	67 J-	78.7 J-	76.2 J-	130 UJ	130 UJ	130 UJ	5.4 U	5.4 U	3.78 J	2.7 U	54 U
1446	SS045-GAL69-001	Galaxy	16000	57.2 J-	59.9 J-	111 J-	140 UJ	140 UJ	85.9 J-	140 UJ	5.7 U	5.7 U	1.99 J	2.8 U	57 U

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	USEPA Resident Risk-Based Removal Management Levels (RML) for Soil (µg/kg)		200,000*	113,000	11,500	115,000	1,150,000	11,500	115,000	201,000	3,930	110,000	3,390	3,050	17,100
	USEPA Residential Soil Regional Screening Level (RSL) (µg/kg)		200,000	1,100	110	1,100	11,000	110	1,100	2,000	39	1,900	34	70	490
1426	SS045-GAL70-001	Galaxy	17000	157 J-	305 J-	527 J-	198 J-	130 UJ	214 J-	130 UJ	5.4 U	5.4 U	4.33 J	2.7 U	54 U
1430	SS045-GAL71-001	Galaxy	15000	65.5 J	95.3 J	192 J	130 U	130 U	66.4 J	130 U	5.5 U	5.5 U	2.33 J	2.7 U	55 U
1429	SS045-GAL72-001	Galaxy	19000	160 J	222 J	380	153 J	97.9 J	156 J	130 U	5.3 U	2.36 J	2.6 U	2.6 U	53 U
1445	SS045-GAL73-001	Galaxy	33000	189 J-	224 J-	433 J-	156 J-	130 UJ	114 J-	130 UJ	5.3 U	10.5 J+	34.2	3.16 J	53 UJ
1422	SS045-GAL74-001	Galaxy	14000	140 UJ	57.1 J-	79 J-	140 UJ	140 UJ	140 UJ	140 UJ	5.4 U	5.4 U	1.21 J	2.7 U	54 U
1426	SS045-GAL75-001	Galaxy	14000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.9 U	3.3 J	2.93 J	2.4 U	49 U
1426	SS045-GAL75-002	Galaxy	14000	120 U	120 U	120 U	120 U	120 U	120 U	120 U	4.9 U	4.9 U	2.4 U	2.4 U	49 U
1426	SS045-GAL75-003	Galaxy	14000	130 U	130 U	130 U	130 U	130 U	130 U	130 U	5.1 U	5.1 U	2.5 U	2.5 U	51 U

Notes:

Yellow highlighted and **bold** values indicate the value exceeds the USEPA Residential Soil Regional Screening Level (RSL) (µg/kg).

Red highlighted and **bold** values indicate the value exceeds the USEPA Resident Risk-Based Removal Management Levels (RML) for Soil (µg/kg).

Note, soil results exceeding the USEPA RSL or USEPA RML does not automatically indicate an unacceptable risk.

* For lead, the updated USEPA residential soil RSL (200,000 µg/kg) is also the RML (200,000 µg/kg).

- U: Non-detect
- J: Estimated Value
- J-: Estimated value, likely biased low
- J+: Estimated value, likely biased high
- UJ: Non-detect with estimated detection limit
- ug/kg: microgram per kilogram